

APPENDIX E

HAZARDOUS MATERIAL SURVEY – DRY DOCK NO. 1 LIFTING AND
HANDLING IMPROVEMENTS, PORTSMOUTH NAVAL SHIPYARD, KITTERY, MAINE
DATED MARCH 20, 2015 AND UPDATED FEBRUARY 22, 2016



Wilcox & Barton INC.

ENVIRONMENTAL AND CIVIL ENGINEERING

HAZARDOUS MATERIALS SURVEY

DRY DOCK NO. 1 LIFTING AND HANDLING IMPROVEMENTS PORTSMOUTH NAVAL SHIPYARD KITTERY, MAINE

Prepared for:

Fay, Spofford & Thorndike, LLC
5 Burlington Woods
Burlington, Massachusetts 01803
Contact: Mr. Marc Nicolazzo, (781) 221-1287

Prepared by:

Wilcox & Barton, Inc.
57 Hoit Road
Concord, New Hampshire 03301
Contact: Mr. William R. Wilcox, (603) 369-4190 x501

March 20, 2015
revised February 22, 2016

Wilcox & Barton, Inc. Project No.: FST0049

WWW.WILCOXANDBARTON.COM
1 (888) 777-5805



Wilcox & Barton INC.

ENVIRONMENTAL AND CIVIL ENGINEERING

HAZARDOUS MATERIALS SURVEY

**DRY DOCK NO. 1 LIFTING AND HANDLING IMPROVEMENTS
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE**

Prepared for:

Fay, Spofford & Thorndike, LLC
5 Burlington Woods
Burlington, Massachusetts 01803
Contact: Mr. Marc Nicolazzo, (781) 221-1287

Prepared by:

Wilcox & Barton, Inc.
57 Hoit Drive
Concord, New Hampshire 03301
Contact: Mr. William R. Wilcox, (603) 396-4190 x501

Wilcox & Barton, Inc. Project No: FST0049

March 20, 2015

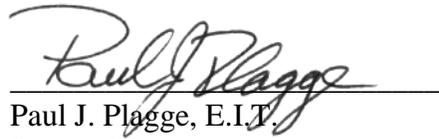
revised February 22, 2016

CERTIFICATION

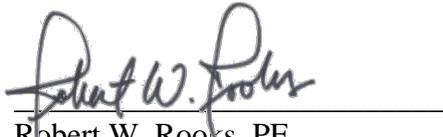
The following personnel have prepared and/or reviewed this report for accuracy, content, and quality of presentation.

Document Name: Hazardous Materials Survey
Dry Dock No. 1 Lifting and Handling Improvements
Portsmouth Naval Shipyard, Kittery, Maine

Date/Version: February 22, 2016



Paul J. Plagge, E.I.T.
Senior Project Engineer
Maine Asbestos Inspector #AI-0574



Robert W. Rooks, PE
Principal Engineer

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
2.0	SITE DESCRIPTION.....	1
3.0	SITE INSPECTION.....	1
3.1	Asbestos-Containing Materials Survey.....	1
3.2	Lead Paint Survey.....	2
4.0	SOIL BORING ADVANCEMENT.....	3
5.0	CONCLUSIONS AND RECOMMENDATIONS.....	4
5.1	Asbestos.....	4
5.2	Lead Paint.....	5
5.2	Soil Boring Results.....	5
6.0	LIMITATIONS AND RESTRICTIONS.....	6

Tables

Table 1	Asbestos Samples – Summary of Analytical Results
Table 2	Lead Paint Samples – Summary of Analytical Results
Table 3A	Soil Analytical Summary – VOCs & PAHs
Table 3B	Soil Analytical Summary – Metals, PCBs, TPH
Table 3C	Soil Analytical Summary – Pesticides & Herbicides

Figures

Figure 1	Hazardous Materials Survey - Sample Locations
Figure 1A	Hazardous Materials Survey – Berth 13B Underdeck Sample Locations

Appendix

Appendix A	Inspector Certification
Appendix B	Laboratory Certifications
Appendix C	Laboratory Reports

1.0 INTRODUCTION

Wilcox & Barton, Inc. has completed a hazardous materials survey of the surfaces of Berths 11, 12, 13, and Dry Dock No. 1 at the Portsmouth Naval Shipyard (PNSY) in Kittery, Maine. The work was performed under contract to Fay, Spofford & Thorndike, LLC (FST) in accordance with Naval Facilities Engineering Command Contract No. N40085-14-D-8113, Task Order 0003.

The purpose of this work was to identify asbestos-containing materials (ACM) and lead paint-coated surfaces in support of the design of repairs and renovations of the portal crane rail at Berths 11, 12, 13, and Dry Dock No. 1. Other hazardous materials were specifically outside the scope of this survey. This survey is subject to certain limitations noted herein.

2.0 SITE DESCRIPTION

Berths 11, 12, and 13 are located within the Controlled Industrial Area (CIA) of PNSY and along the Piscataqua River. They are used for the docking of naval vessels. Berths 11, 12, and 13 are located northwest of Dry Dock 1.

3.0 SITE INSPECTION

The hazardous materials survey was performed on November 3, 2014, March 13, 2015, and February 17, 2016. A two-person field team performed the survey under the provisions of a job-specific Accident Prevention Plan and Activity Hazard Analysis approved prior to the start of work. On November 3, 2014, the surface of Berths 11, 12, and 13 were inspected. On March 13, 2015, accessible portions of the underdeck of Berth 13B were inspected. Berth 13C was not accessible due to the presence of a submarine. On February 17, 2016, Wilcox & Barton, Inc. sampled specific items on the surface of the Berths at the direction of FST.

3.1 Asbestos-Containing Materials Survey

The asbestos-containing material survey was led by a trained and accredited inspector; a copy of the inspector certification is contained in Appendix A. Accessible portions of the berths were inspected for suspect ACM. For each suspect ACM observed, the inspector described the material, assigned a unique identification number (homogenous material number), and recorded its location. Bulk samples of each suspect, distinct, homogenous material were collected in a random manner and submitted for laboratory analysis of asbestos. A homogenous material is defined as a construction material used on similar structure and utility components that is uniform in color and/or texture, based on the inspector's judgment.

Sample locations are depicted on Figure 1– *Hazardous Material Survey – Sample Locations* and Figure 1A – *Hazardous Material Survey – Berth 13B Underdeck Sample Locations*. Eight bulk samples representing four homogenous materials were submitted to ProScience Analytical Services, Inc. (ProScience) of Woburn, Massachusetts, for analysis by polarized light microscopy (PLM) by Method 600/R-93/116 using the positive stop technique. In this technique, once a sample from a homogenous material tests positive for asbestos, the remaining

samples of that group are not analyzed. A copy of the laboratory certification for ProScience is presented in Appendix B.

The PLM method is not considered a reliable analytical method for non-friable organically bound (NOB) materials. NOB refers to a wide variety of non-friable building materials embedded in flexible-to-rigid asphalt or vinyl matrices generally associated with materials such as vinyl-asphalt tile, mastic, asphalt shingles, roofing materials, paint chips, caulking, and glazing compound. According to current state-of-the-art practices, transmission electron microscopy (TEM) analysis is recommended for NOB materials that test negative for asbestos by PLM. Three bulk samples representing three NOB homogenous materials were analyzed by TEM instead of PLM.

A material is defined by the U.S. Environmental Protection Agency (EPA) as being a regulated asbestos-containing material if it contains greater than one percent (1%) asbestos based on laboratory analysis. A material can only be considered negative if analytical results from all bulk samples of an individual homogenous material indicate an asbestos content of 1% or less.

Asbestos was detected at concentrations of 1% or more in the following material:

Summary of Asbestos Containing Materials

Asbestos Containing Material	Homogeneous Material #	Location	Quantity
Black Tar	NDD-B010	Fabricated Cleat Anchor Holes	Unknown

A summary of sample locations, descriptions, and laboratory analytical results is presented in Table 1. Copies of laboratory reports are included in Appendix C.

3.2 Lead Paint Survey

Wilcox & Barton, Inc. performed a survey of painted surfaces of the berths. The location and general condition of each paint-coated surface were recorded. Paint system condition ranged from good to poor. The predominant paint systems consisted of the following:

- Yellow on concrete retaining wall (Area North of Dry Dock 1)
- Yellow on asphalt and/or concrete (Crane Rail Safety Markings – Throughout Berths)
- Yellow and on bollard (Throughout Berths)
- Red on asphalt (Crane Rail Safety Markings – Adjacent to Dry Dock 1)
- Red on concrete (Crane Rail Safety Markings – Berth 11)
- Yellow on concrete structure (Berth 11)
- Aqua over blue on metal boxes (Throughout Berths)
- Yellow on fabricated cleats (Throughout Berths)
- Yellow (with teal undercoat) on cast cleats (Throughout Berths)
- Yellow on fabricated bollard (Throughout Berths)
- Coal tar on master pile (Throughout Berths)



- Light green on effluent tank platform (Berth 11)
- Yellow on donkey eared cleat (Berth 11 – Bent 24/25)

Seventeen bulk samples were collected from surfaces exhibiting unique paint systems and submitted to ProScience for laboratory analysis of lead by atomic absorption (AA) using Test Method SW846-7420/3051. A copy of the laboratory certification for ProScience is presented in Appendix B. Paint chip samples were collected at the locations depicted on Figure 1.

Laboratory analysis revealed detectable concentrations of lead within seven of the seventeen paint systems. Paint containing lead at concentrations exceeding 0.5 % by weight is considered “lead-based paint” by both the US Environmental Protection Agency (EPA) and the US Department of Housing and Urban Development (HUD) definitions. The paint system that exceeded the 0.5% threshold is shown in the following table.

Lead-Containing Paint Systems with Lead Concentration Greater than 0.5%		
Description	Location	Concentration (Weight %)
Yellow Paint	Crane Rail Safety Markings on Concrete –North of Dry Dock 1	0.53
Yellow Paint	Fabricated Cleat – North of Dry Dock 1	9.6
Yellow Paint	Fabricated Cleat – North of Dry Dock 1	6.5

Paint containing lead at a concentration exceeding the Consumer Product Safety Commission definition of “lead-containing paint” of 0.06 % by weight. For worker protection purposes under Occupational Safety and Health Administration (OSHA) rules, any amount of lead in paint poses a potential exposure risk. The following paint systems contained lead at a concentration below the 0.5% threshold but above the 0.06% threshold:

Lead-Containing Paint Systems with Lead Concentration Less than 0.5% and Greater than 0.06%		
Description	Location	Concentration (Weight %)
Red Paint	Crane Rail Safety Markings on Concrete – Berth 11	0.26
Yellow Paint	Concrete Structure – Berth 11	0.11

A copy of the laboratory report is included in Appendix C.

4.0 SOIL TESTING

In November and December 2014, Haley & Aldrich, Inc. (H&A) performed a subsurface investigation at Berths 11, 12, and 13 and Dry Dock No. 1 to obtain geotechnical information in support of the proposed repairs. As part of the subsurface investigation, H&A collected soil samples from soil borings labeled HA-LB-01, HA-LB-2, HA-LB-03, HA-LB-04 and HA-LB-05.

Soil samples were collected from selected intervals and submitted to Alpha Analytical for analysis of VOCs by EPA Method 8260B, PAHs by EPA Method 8270D, total petroleum hydrocarbons (TPH) by EPA Method 8100 Modified, PCBs by EPA Method 8082, RCRA 8 Metals, Pesticides by EPA Method 8081, and Chlorinated herbicides by EPA Method 8151.



In borings HA-LB-01, HA-LB-03, and HA-LB-04, TPH was reported at concentrations exceeding the State of Maine Remedial Action Guidelines (RAGs) for Soil Contaminated with Hazardous Substances.

Arsenic was reported in all borings at concentrations exceeding the risk based standard for Outdoor Commercial Worker; however, the concentrations were generally consistent with the Soil Background levels and are likely representative of naturally-occurring conditions.

In boring HA-LB-05, dichlorodifluoromethane was measured at a concentration well below the RAGs standard. In boring HA-LB-05, dichlorodifluoromethane was measured at a concentration well below the RAGs standard. In boring HA-LB-04, measurable concentrations of several PAH compounds were detected at concentrations well below the RAGs standards. PCBs, pesticides, and herbicides were not detected. Soil analytical results are summarized in Tables 3A, 3B, and 3C; a copy of the laboratory report is included in Appendix C.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are drawn from the findings of the survey.

5.1 Asbestos

Asbestos was detected at a concentration of 1% or more in the black tar identified inside the anchor holes of the fabricated cleat north of dry dock 1.

Any demolition or renovation that could disturb ACM must comply with state and federal environmental and safety standards. In accordance with 40 CFR Part 61, *National Emissions Standards for Hazardous Air Pollutants* (NESHAPs), a contractor conducting any demolition that will disturb regulated ACM must: (1) notify the EPA Administrator of such activities; (2) use proper removal procedures; (3) use proper engineering controls to limit emissions of asbestos fibers; and (4) utilize proper waste disposal. Also in accordance with NESHAPs, ACM that will be disturbed must be removed by a licensed asbestos abatement contractor prior to initiation of any building demolition or renovation activities. If any hidden and previously undetected suspect ACM is uncovered during demolition activities, work must be stopped and the material tested for asbestos content. All ACM must be disposed of in accordance with all applicable state and federal requirements.

Under OSHA regulations, any demolition or renovation to be performed at a structure where ACM is present must be performed in accordance with a worker protection policy, including, but not limited to, appropriate training, medical monitoring, respiratory protection, and other protective equipment.

Communication of hazards as specified in 29 CFR 1926.1101(k) requires that the facility owner provide notification of the presence, quantity, and location of ACM to people who may come in contact with the ACM during construction or renovation work. Warning signs are required to be posted at the entrance to mechanical rooms or immediately within if clearly noticeable. The

signs will identify the ACM that is present, its location, and the proper work practices required to ensure that ACM is not disturbed. The signs must bear the following information:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY

Labels must be affixed to thermal system insulation and surfacing materials containing asbestos equal to or greater than 1% and to all containers containing such products, including waste containers. Where feasible, installed asbestos products must contain a visible label. The label must contain the following information:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

During crane rail improvements, materials may be identified that were not observable during the survey. Suspect materials that are found during renovation work should be sampled and analyzed for asbestos content.

5.2 Lead Paint

Lead was detected in several of the paint systems on the berths. The presence of lead in paint requires that any renovation or demolition work be performed under the worker protection requirements outlined in 29 CFR 1926.62. During demolition or renovation, paint materials containing lead should not be sanded, scraped, drilled, or otherwise altered unless proper engineering controls are utilized to prevent migration of fugitive lead-containing dust from the work area. Under OSHA regulations, any demolition or renovation to be performed at a structure where lead in paint is present must be performed in accordance with a worker protection policy, including, but not limited to, appropriate training, medical monitoring, respiratory protection, and other protective equipment.

5.3 Soil Boring Results

TPH and arsenic were reported in one or more soil samples at concentrations exceeding the corresponding State of Maine RAGs standards. While the detected concentrations do not indicate widespread or significant contamination of the subsurface, contaminated soil may be encountered during excavation and should be handled and disposed of in accordance with State of Maine regulations.

6.0 LIMITATIONS AND RESTRICTIONS

This hazardous materials survey was restricted to observations made by Wilcox & Barton, Inc. during inspection of the facility on the dates indicated. The results of this report do not guarantee that all ACM or lead paint have been located or identified for the following reasons:

1. Each suspect or confirmed ACM and lead paint was assumed homogenous. The possibility exists that the composition of materials that appear homogenous may differ from one location to another.
2. Suspect ACM or painted surfaces may be hidden within or behind structural components that were not accessible unless substantial demolition of the berths was performed.
3. Wilcox & Barton, Inc. did not access the following areas of the berths: interior electrical and mechanical areas of the capstan base, the underside of berths 11, 12 and 13C, and electrical and sanitary sewer manholes.

Within the limitations mentioned above, this project has been undertaken and performed in a professional manner, in accordance with generally accepted practices, and using the degree of skill and care ordinarily exercised by reputable environmental consultants under similar circumstances.

TABLES

TABLE 1
Asbestos Samples - Summary of Analytical Results
Hazardous Materials Survey
Dry Dock No. 1 Lifting and Handling Improvements
PNSY, Kittery, Maine

Material ID#	Homogenous Material	Sample #	Functional Space/ Sample Location	Date Sampled	PLM Results	TEM Results
B11-B001	Light Grey Caulking	B11-B001	Concrete Cracks Between Crane Rails	11/03/14	--	ND
B11-B002	Grey Caulking	B11-B002	Holes in Base of Bollards	11/03/14	--	ND
B13-B003	Black Pipe Wrap	B13-B003A	Steam Lines Under Berth 13	03/13/15	ND	--
		B13-B003B	Steam Lines Under Berth 13	03/13/15	ND	--
B13-B004	Grey Air Cell	B13-B004A	Steam Lines Under Berth 13	03/13/15	ND	--
		B13-B004B	Steam Lines Under Berth 13	03/13/15	ND	--
B13-B005	Black Tar Paper	B13-B005A	On Concrete Decking Under Berth 13	03/13/15	ND	--
		B13-B005B	On Concrete Decking Under Berth 13	03/13/15	ND	--
B13-B006	Light Grey Caulking	B13-B006	On Concrete Decking Under Berth 13	03/13/15	--	ND
B13-B007	White Paper	B13-B007A	On Concrete Decking Under Berth 13	03/13/15	ND	--
		B13-B007B	On Concrete Decking Under Berth 13	03/13/15	ND	--
B11-B008	Light Grey Caulking/Sealant	B11-B008	Cast Cleat Anchor Holes	02/17/16	--	ND
B11-B009	Black Tar	B11-B009	Timber Pile Curb	02/17/16	--	ND
NDD-B010	Black Tar	NDD-B010	Fabricated Cleat Anchor Holes	02/17/16	--	2.20% Chrysotile

Notes:

PLM Polarized Light Microscopy
TEM Transmission Electron Microscopy
ND Not Detected
-- Not Analyzed



TABLE 2
Lead Paint Samples - Summary of Analytical Results
Hazardous Materials Survey
Dry Dock No. 1 Lifting and Handling Improvements
PSNY, Kittery, Maine

Sample #	Paint System	Sample Location	Date Sampled	Lead Concentration ¹ (% weight)
NDD-LBP-01	Yellow Paint	Concrete Retaining Wall in Area - North of Dry Dock 1	11/03/14	0.024
NDD-LBP-02	Yellow Paint	Crane Safety Markings on Concrete - North of Dry Dock 1	11/03/14	0.53
B11-LBP-03	Yellow Paint	Bollards - Berth 11	11/03/14	ND (<0.031)
NDD-LBP-04	Red Paint	Crane Safety Marking On Asphalt - Area North of Dry Dock 1	11/03/14	ND (<0.030)
B11-LBP-05	Red Paint	Crane Safety Markings On Concrete Berth 11	11/03/14	0.26
B11-LBP-06	Yellow Paint	On Concrete Structure - Berth 11	11/03/14	0.11
B11-LBP-07	Aqua over Blue Paint	On Metal Boxes - Berth 11	11/03/14	ND (<0.029)
B13-LBP-08	Yellow Paint	Crane Safety Markings on Concrete - Berth 13	11/03/14	0.021
SDD-LBP-09	Yellow Paint	Crane Safety Marking On Asphalt - Area South of Dry Dock 1	11/03/14	ND (<0.024)
NDD-LBP-10	Yellow Paint	Fabricated Cleat - North of Dry Dock 1	02/17/16	9.6
B11-LBP-11	Yellow Paint (Teal Undercoat)	Cast Cleat - Berth 11	02/17/16	ND (<0.011)
B11-LBP-12	Yellow Paint	Fabricated Bollard - Berth 11 (Bent 14)	02/17/16	ND (<0.013)
B11-LBP-13	Coal Tar	Master Pile - Fabricated Bollard - Berth 11 (Bent 14)	02/17/16	ND (<0.016)
B11-LBP-14	Light Green	Effluent Tank Platform - Berth 11	02/17/16	ND (<0.018)
B11-LBP-15	Yellow Paint	Donkey Eared Cleat - Berth 11 (Bent 24/25)	02/17/16	ND (<0.019)
B11-LBP-16	Yellow Paint	Fabricated Bollard - Berth 11 (Bent 25)	02/17/16	ND (<0.027)
B13-LBP-17	Yellow Paint	Fabricated Cleat - Berth 13	02/17/16	6.5

Notes:

- 1. Analyzed by EPA Method SW846-7420-3051 and reported on an "as received" wet weight basis.
- ND (<0.010) Not detected above indicated laboratory reporting limit
- "Lead-based paint" is defined by EPA/HUD as a lead concentration in paint >0.5% by weight.
- NDD Area North of Dry Dock
- B11 Berth 11
- B13 Berth 13
- SDD Area South of Dry Dock



TABLE 3A
Soil Analytical Summary - VOCs & PAHs
 Dry Dock No. 1 Lifting and Handling Improvements
 PNSY, Kittery, Maine

Sample Identification Sample Date Depth	Remedial Action Guidelines for Soil †				HA-LB-04	HA-LB-05	HA-LB-05	HA-LB-05	HA-LB-03	HA-LB-03	HA-LB-2	HA-LB-2	HA-LB-01	HA-LB-01
	Outdoor Commercial Worker	Excavation or Construction Worker	Leaching to Groundwater	Soil Background	11/25/2014 1.0-4.0 ft	12/1/2014 0-4 ft	12/1/2014 4-8 ft	12/1/2014 19-21 ft	12/4/2014 0.5-4.5 ft	12/4/2014 4.5-8.0 ft	12/9/2014 1-5 ft	12/9/2014 5-9 ft	12/15/2014 1-5 ft	12/15/2014 5-10 ft
Volatil Organic Compounds (VOCs) by EPA Method 8260														
Benzene	850	150	0.51	NS	<0.0011	<0.0014	<0.0015	<8.6	<0.0020	<0.0023	<0.0023	<0.0020	<0.0018	<0.0016
1,2-Dibromoethane (EDB)	24	180	NS	NS	<0.0044	<0.0058	<0.0059	<34	<0.0079	<0.0092	<0.0091	<0.0080	<0.0072	<0.0062
Dichlorodifluoromethane (Freon 12)	10,000	10,000	NS	NS	<0.011	<0.014	0.120	<86	<0.020	<0.023	<0.023	<0.020	<0.018	<0.016
Ethylbenzene	4,300	10,000	0.81	NS	<0.0011	<0.0014	<0.0015	<8.6	<0.0020	<0.0023	<0.0023	<0.0020	<0.0018	<0.0016
Methyl tert-Butyl Ether (MTBE)	10,000	10,000	0.19	NS	<0.0022	<0.0029	<0.0030	<17	<0.0039	<0.0046	<0.0045	<0.0040	<0.0036	<0.0031
Naphthalene	10,000	10,000	1.7	NS	<0.0054	<0.0072	<0.0074	<43	<0.0098	<0.011	<0.011	<0.010	<0.0090	<0.0078
Tetrachloroethylene	10,000	10,000	2.7	NS	<0.0011	<0.0014	<0.0015	<8.6	0.0021	<0.0023	<0.0023	<0.0020	<0.0018	<0.0016
Toluene	10,000	10,000	8.1	NS	<0.0016	<0.0022	<0.0022	<13	<0.0030	<0.0034	<0.0034	<0.0030	<0.0027	<0.0023
Trichloroethylene	850	140	0.23	NS	<0.0011	<0.0014	<0.0015	<8.6	<0.0020	<0.0023	<0.0023	<0.0020	<0.0018	<0.0016
Vinyl Chloride	66	600	0.013	NS	<0.0022	<0.0029	<0.0030	<17	<0.0039	<0.0046	<0.0045	<0.0040	<0.0036	<0.0031
Total Xylenes	10,000	10,000	26	NS	<0.0022	<0.0029	<0.0030	<17	<0.0039	<0.0046	<0.0045	<0.0040	<0.0036	<0.0031
Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270														
Acenaphthene	10,000	9,800	170	NS	<0.700	<0.140	<0.150	<0.160	<0.140	<0.150	<0.150	<0.180	<0.140	<0.150
Acenaphthylene	10,000	10,000	68	NS	<0.700	<0.140	<0.150	<0.160	<0.140	<0.150	<0.150	<0.180	<0.140	<0.150
Anthracene	10,000	3,800	2,400	NS	<0.520	<0.110	<0.110	<0.120	<0.100	<0.110	<0.110	<0.140	<0.100	<0.110
Benzo[a]anthracene	35	430	10,000	NS	<0.520	<0.110	<0.110	<0.120	<0.100	<0.110	<0.110	<0.140	<0.100	<0.110
Benzo[a]pyrene	3.5	43	10,000	NS	<0.700	<0.140	<0.150	<0.160	<0.140	<0.150	<0.150	<0.180	<0.140	<0.150
Benzo[b]fluoranthene	35	430	10,000	NS	0.580	<0.110	<0.110	<0.120	<0.100	<0.110	<0.110	<0.140	<0.100	<0.110
Benzo(g,h,i)perylene	10,000	10,000	10,000	NS	<0.700	<0.140	<0.150	<0.160	<0.140	<0.150	<0.150	<0.180	<0.140	<0.150
Benzo[k]fluoranthene	350	4,300	10,000	NS	<0.520	<0.110	<0.110	<0.120	<0.100	<0.110	<0.110	<0.140	<0.100	<0.110
Chrysene	3,500	10,000	10,000	NS	0.550	<0.110	<0.110	<0.120	<0.100	<0.110	<0.110	<0.140	<0.100	<0.110
Dibenz[a,h]anthracene	3.5	43	10,000	NS	<0.520	<0.110	<0.110	<0.120	<0.100	<0.110	<0.110	<0.140	<0.100	<0.110
Fluoranthene	10,000	10,000	10,000	NS	1.000	<0.110	<0.110	<0.120	<0.100	<0.110	<0.110	<0.140	<0.100	<0.110
Fluorene	10,000	10,000	120	NS	<0.870	<0.180	<0.190	<0.200	<0.180	<0.180	<0.180	<0.230	<0.180	<0.190
Indeno[1,2,3-cd]pyrene	35	430	10,000	NS	<0.700	<0.140	<0.150	<0.160	<0.140	<0.150	<0.150	<0.180	<0.140	<0.150
2-Methylnaphthalene	3,600	600	3.6	NS	<1.000	<0.220	<0.230	<0.240	<0.210	<0.220	<0.220	<0.280	<0.210	<0.230
Naphthalene	10,000	10,000	1.7	NS	<0.870	<0.180	<0.190	<0.200	<0.180	<0.180	<0.180	<0.280	<0.180	<0.190
Phenanthrene	10,000	8,900	97	NS	<0.520	<0.110	<0.110	<0.120	<0.100	<0.110	<0.110	<0.140	<0.100	<0.110
Pyrene	10,000	10,000	10,000	NS	0.810	<0.110	<0.110	<0.120	<0.100	<0.110	<0.110	<0.140	<0.100	<0.110

All results are in milligrams per kilogram (mg/kg) unless otherwise noted.

Only detected and select analytes presented; all others were not detected.

<XX Not detected above the listed laboratory reporting limit.

NS No standard established.

bold shaded Detected concentration exceeds one or more RAGs for Soil.

† Tier I, DEP-BRWM 6c 2010, Maine Remedial Action Guidelines (RAGs) for Soil Contaminated with Hazardous Substances, eff. 01/13/10, rev. 05/08/13.

Ceiling Level of 10,000 mg/kg used when exposure-based value is greater.



TABLE 3B
Soil Analytical Summary - Metals, PCBs, TPH
 Dry Dock No. 1 Lifting and Handling Improvements
 PNSY, Kittery, Maine

Sample Identification Sample Date Depth	Remedial Action Guidelines for Soil †				HA-LB-04 11/25/2014 1.0-4.0 ft	HA-LB-05 12/1/2014 0-4 ft	HA-LB-05 12/1/2014 4-8 ft	HA-LB-05 12/1/2014 19-21 ft	HA-LB-03 12/4/2014 0.5-4.5 ft	HA-LB-03 12/4/2014 4.5-8.0 ft	HA-LB-2 12/9/2014 1-5 ft	HA-LB-2 12/9/2014 5-9 ft	HA-LB-01 12/15/2014 1-5 ft	HA-LB-01 12/15/2014 5-10 ft
	Outdoor Commercial Worker	Excavation or Construction Worker	Leaching to Groundwater	Soil Background										
RCRA-8 Metals by EPA Methods 6010/7471														
Arsenic	4.2	42	NS	16	18	25	22	27	16	10	13	17	22	16
Barium	10,000	10,000	NS	470	32	47	56	70	41	20	17	28	43	38
Cadmium	94	19	NS	0.26	<0.40	<0.41	<0.44	<0.46	<0.42	<0.42	<0.43	<0.56	<0.40	<0.45
Chromium‡	10,000	10,000	NS	NS	37	33	28	32	32	20	19	31	39	30
Lead	1,100	950	10,000	32	19	10	7.4	8.7	6.5	11	6.4	5.5	9.9	7.7
Mercury	510	930	NS	NS	0.10	<0.08	<0.08	<0.09	<0.07	<0.08	<0.07	<0.09	<0.07	<0.07
Selenium	8,500	1,500	NS	0.61	<0.81	<0.82	<0.89	<0.92	<0.83	<0.84	<0.86	<1.1	<0.81	<0.90
Silver	8,500	1,500	NS	NS	<0.40	<0.41	<0.44	<0.46	<0.42	<0.42	<0.43	<0.56	<0.40	<0.45
Polychlorinated Biphenyls (PCBs) by EPA Method 8082														
Total PCBs	12	6.5	NS	NS	<0.0347	<0.0351	<0.0378	<0.0399	<0.0352	<0.0357	<0.0373	<0.0457	<0.0358	<0.0364
Total Petroleum Hydrocarbons (TPH) by EPA Method 8100														
TPH (Unknown Hydrocarbons C9-C40)	5,500	10,000	75	NS	544	68.6	<37.6	<39.7	98.7	206	39.6	<44.7	80.4	<38

All results are in milligrams per kilogram (mg/kg) unless otherwise noted.

Only detected and select analytes presented; all others were not detected.

<XX Not detected above the listed laboratory reporting limit.

NS No standard established.

bold shaded Detected concentration exceeds one or more RAGs for Soil.

bold italics Not detected, laboratory reporting limit exceeds one or more RAGs.

† Tier I, DEP-BRWM 6c 2010, Maine Remedial Action Guidelines (RAGs) for Soil Contaminated with Hazardous Substances, eff. 01/13/10, rev. 05/08/13.

‡ Ceiling Level of 10,000 mg/kg used when exposure-based value is greater.

‡ Standards apply to both trivalent chromium and hexavalent chromium.



Table 3C
Soil Analytical Summary - Pesticides & Herbicides
 Dry Dock No. 1 Lifting and Handling Improvements
 PNSY, Kittery, Maine

Sample Identification Sample Date Depth	Remedial Action Guidelines for Soil †				HA-LB-04	HA-LB-05	HA-LB-05	HA-LB-05	HA-LB-03	HA-LB-03	HA-LB-2	HA-LB-2	HA-LB-01	HA-LB-01
	Outdoor Commercial Worker	Excavation or Construction Worker	Leaching to Groundwater	Soil Background	11/25/2014 1.0-4.0 ft	12/1/2014 0-4 ft	12/1/2014 4-8 ft	12/1/2014 19-21 ft	12/4/2014 0.5-4.5 ft	12/4/2014 4.5-8.0 ft	12/9/2014 1-5 ft	12/9/2014 5-9 ft	12/15/2014 1-5 ft	12/15/2014 5-10 ft
Pesticides by EPA Method 8081														
Aldrin	1.7	10	NS	NS	<0.00821	<0.00841	<0.00896	<0.00961	<0.00835	<0.00871	<0.00872	<0.0109	<0.00842	<0.00914
alpha-BHC	4.6	53	NS	NS	<0.00342	<0.00350	<0.00373	<0.00400	<0.00348	<0.00363	<0.00363	<0.00453	<0.00351	<0.00381
beta-BHC	16	140	NS	NS	<0.00821	<0.00841	<0.00896	<0.00961	<0.00835	<0.00871	<0.00872	<0.0109	<0.00842	<0.00914
Lindane (gamma-BHC)	5.4	2.8	NS	NS	<0.00342	<0.00350	<0.00373	<0.00400	<0.00348	<0.00363	<0.00363	<0.00453	<0.00351	<0.00381
Chlordane	110	170	NS	NS	<0.0667	<0.0683	<0.0728	<0.0780	<0.0678	<0.0708	<0.0708	<0.0883	<0.0684	<0.0742
4,4'-DDT	120	140	NS	NS	<0.0154	<0.0158	<0.0168	<0.0180	<0.0156	<0.0163	<0.0164	<0.0204	<0.0158	<0.0171
4,4'-DDE	85	980	NS	NS	<0.00821	<0.00841	<0.00896	<0.00961	<0.00835	<0.00871	<0.00872	<0.0109	<0.00842	<0.00914
4,4'-DDD	120	1,400	NS	NS	<0.00821	<0.00841	<0.00896	<0.00961	<0.00835	<0.00871	<0.00872	<0.0109	<0.00842	<0.00914
Dieldrin	1.8	21	NS	NS	<0.00513	<0.00526	<0.00560	<0.00600	<0.00526	<0.00545	<0.00545	<0.00679	<0.00526	<0.00571
Endosulfan I	6,200	1,400	NS	NS	<0.00821	<0.00841	<0.00896	<0.00961	<0.00835	<0.00871	<0.00872	<0.0109	<0.00842	<0.00914
Endrin	310	480	NS	NS	<0.00342	<0.00350	<0.00373	<0.00400	<0.00348	<0.00363	<0.00363	<0.00543	<0.00351	<0.00381
Heptachlor	6.4	24	NS	NS	<0.00410	<0.00420	<0.00448	<0.00480	<0.00418	<0.00436	<0.00436	<0.0204	<0.00421	<0.00457
Heptachlor Epoxide	3.2	3.1	NS	NS	<0.0154	<0.0158	<0.0168	<0.0180	<0.0156	<0.0163	<0.0164	<0.0164	<0.0158	<0.0171
Methoxychlor	5,100	1,200	NS	NS	<0.0154	<0.0158	<0.0168	<0.0180	<0.0156	<0.0163	<0.0164	<0.0204	<0.0158	<0.0171
Chlorinated Herbicides by EPA Method 8151														
2,4,5-T	10,000	10,000	NS	NS	<0.177	<0.180	<0.192	<0.199	<0.175	<0.180	<0.188	<0.231	<0.178	<0.091
2,4,2-TP (Silvex)	NS	NS	NS	NS	<0.177	<0.180	<0.192	<0.199	<0.175	<0.180	<0.188	<0.231	<0.178	<0.091
2,4-D	NS	NS	NS	NS	<0.177	<0.180	<0.192	<0.199	<0.175	<0.180	<0.188	<0.231	<0.178	<0.191

All results are in milligrams per kilogram (mg/kg) unless otherwise noted.

Only detected and select analytes presented; all others were not detected.

<XX Not detected above the listed laboratory reporting limit.

NS No standard established.

-- Not analyzed or reported.

bold shaded Detected concentration exceeds one or more RAGs for Soil.

bold italics Not detected, laboratory reporting limit exceeds one or more RAGs.

† Tier I, DEP-BRWM 6c 2010, Maine Remedial Action Guidelines (RAGs) for Soil Contaminated with Hazardous Substances, eff. 01/13/10, rev. 05/08/13.

Ceiling Level of 10,000 mg/kg used when exposure-based value is greater.



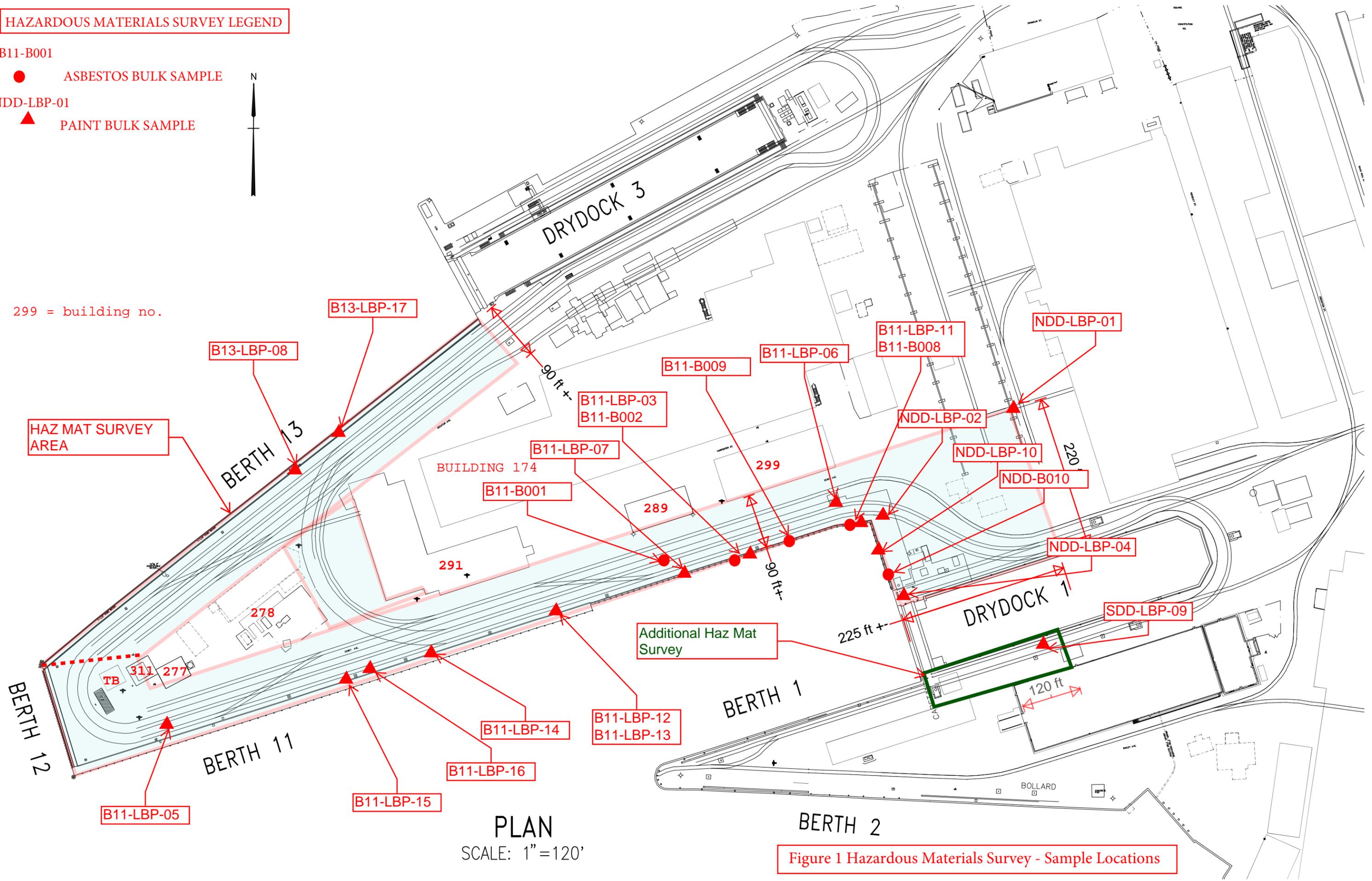
FIGURES

HAZARDOUS MATERIALS SURVEY LEGEND

- B11-B001
- ASBESTOS BULK SAMPLE
- NDD-LBP-01
- ▲ PAINT BULK SAMPLE



299 = building no.



PLAN
SCALE: 1" = 120'

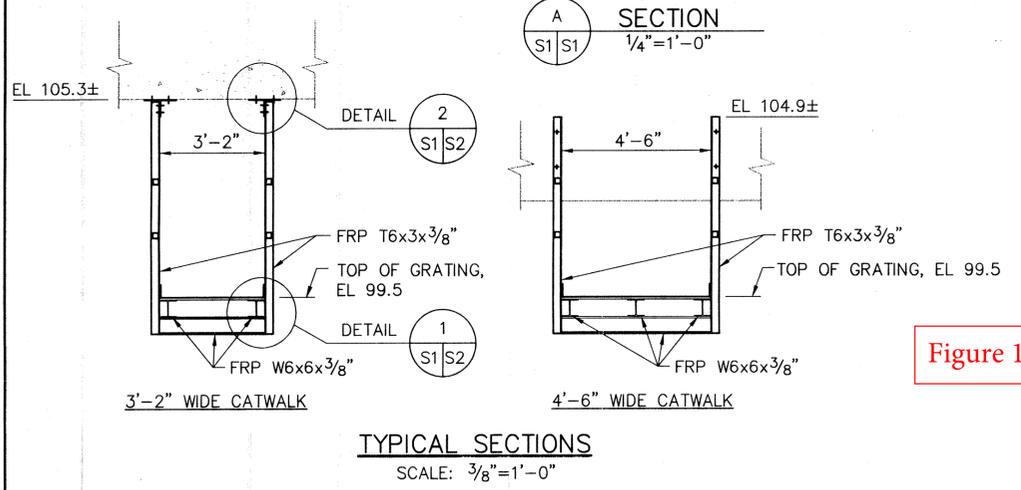
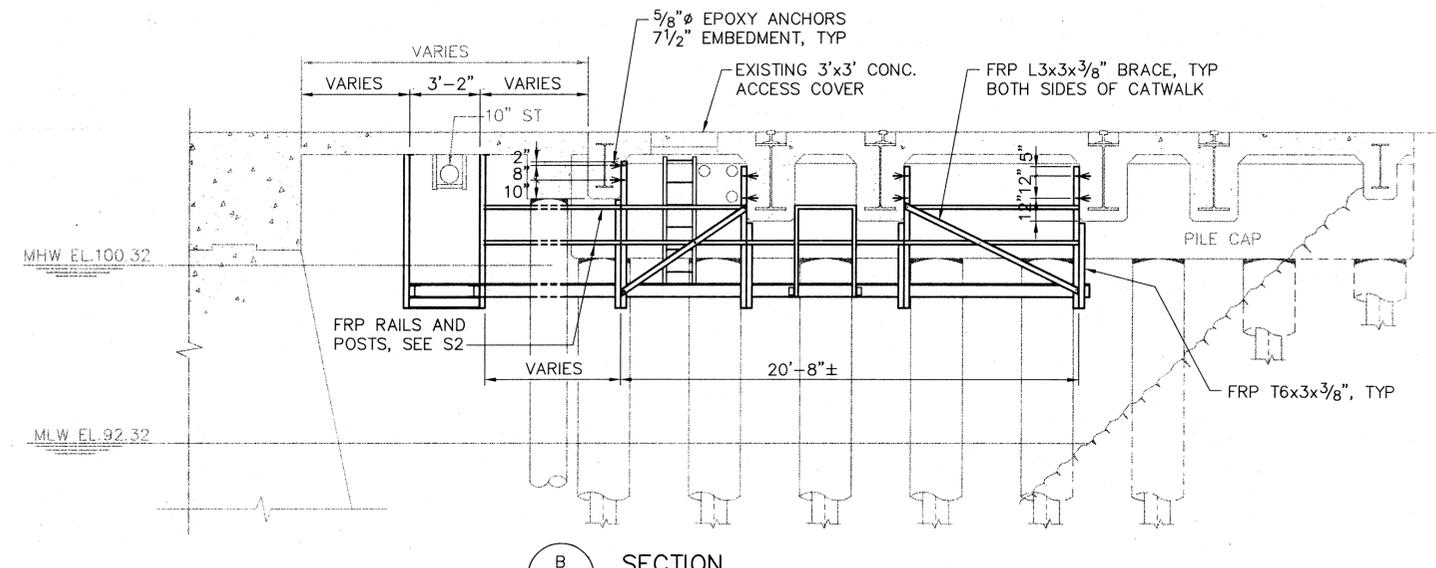
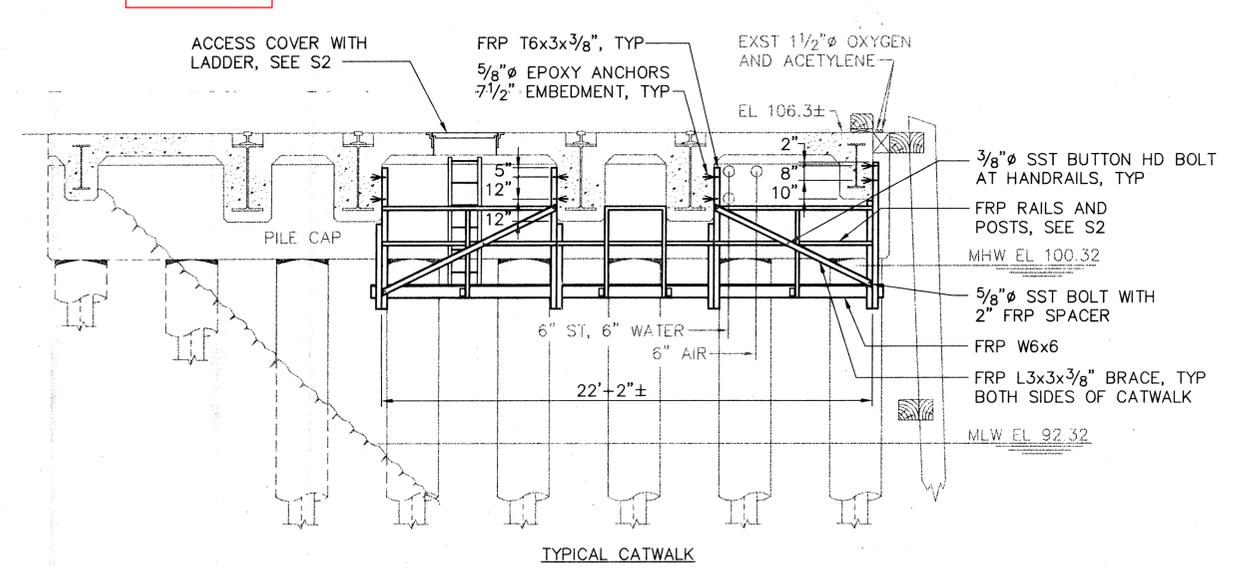
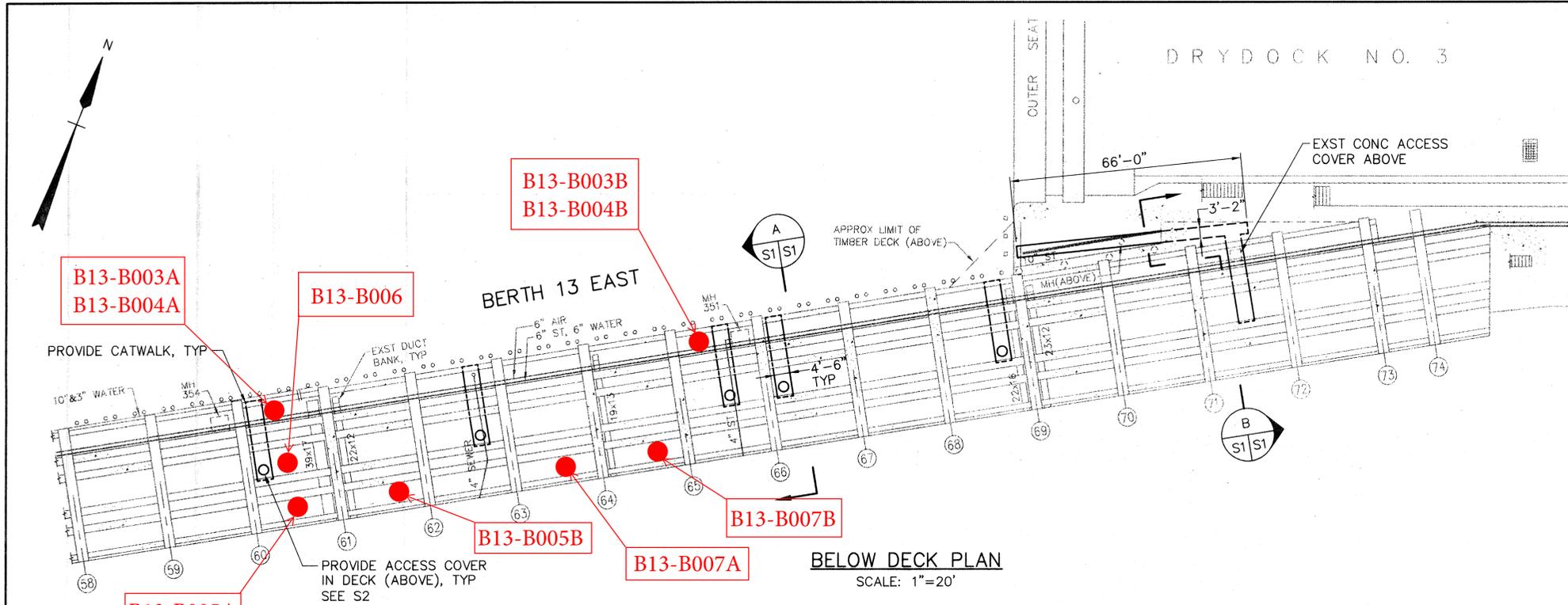
Figure 1 Hazardous Materials Survey - Sample Locations

DESIGN LOADS:

- A. CATWALK GRATING:
 - 1. UNIFORM LIVE LOAD 100 PSF
 - 2. CONCENTRATED LIVE LOAD 300 LB
- B. RAILING:
 - 1. UNIFORM LOADING, APPLIED HORIZONTALLY AND VERTICALLY AT TOP OF RAIL, SIMULTANEOUSLY . . . 50 PLF
 - 2. CONCENTRATED LOAD 200 LB

GENERAL NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION.
- CONTRACTOR SHALL CONFIRM LOCATION OF EACH CATWALK SECTION WITH CONTRACTING OFFICER PRIOR TO FABRICATION.
- ALL FIBERGLASS REINFORCED PLASTIC (FRP) SHALL BE MANUFACTURED BY THE PULTRUDED PROCESS USING A VINYL ESTER RESIN WITH AN ULTRA-VIOLET INHIBITOR.
- ALL FRP SHAPES SHALL HAVE A MINIMUM THICKNESS OF 3/8" UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL USE ASTM A276 TYPE 316 STAINLESS STEEL BOLTS, NUTS AND WASHERS. BOLTS SHALL BE 5/8" DIA. UNLESS NOTED OTHERWISE. NUTS SHALL BE SELF LOCKING. FLAT WASHERS SHALL BE USED UNDER BOTH THE BOLT HEAD AND NUT.
- CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-89. CONCRETE SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- REINFORCING BARS SHALL CONFORM TO ASTM A-615, GRADE 60 AND SHALL BE EPOXY COATED IN CONFORMANCE WITH ASTM A-775.



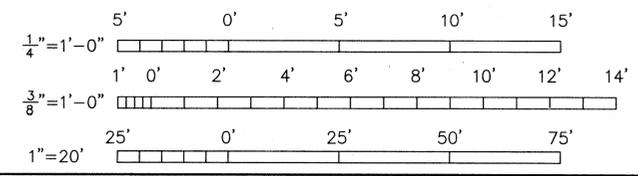
HAZARDOUS MATERIALS SURVEY LEGEND

B13-B003A ● ASBESTOS BULK SAMPLE

Figure 1A Hazardous Materials Survey - Berth 13B Underdeck Sample Locations

LEGEND

- EXISTING FEATURES SHOWN THIS: [Symbol]
- EXISTING FEATURES TO BE REMOVED UNDER THIS CONTRACT: [Symbol]
- FEATURES TO BE PROVIDED UNDER THIS CONTRACT SHOWN THIS: [Symbol]



ARCH.	CIV. STR.	DATE	DESCRIPTION
MECH.	PRGR.	DATE	REVISIONS
ELEC.	SATISFACTORY TO	DATE	DATE
	SATISFACTORY TO	DATE	DATE
	BRANCH HEAD	DATE	DATE
	BRANCH HEAD	DATE	DATE

FAT. SPOFFORD AND THORNDIKE, INC.
5 BURLINGTON WOODS, BURLINGTON, MA 01803
DGN: DWH
RWT
CHK: FAL
SUPV: DWH
DATE: 6/19/96
SUBMITTED BY: [Signature]
APPROVED: [Signature]
FIELD ENGINEERING DIVISION

STATE OF MASSACHUSETTS
ROBERT E. BERTOLINO
No. 25015
Professional Engineer
REG. NO. 10101
SEAL

DEPARTMENT OF THE NAVY
NAVAL SHIPYARD
PORTSMOUTH, N.H.
INSTALL CATWALK AT BERTH 13
PLAN AND SECTIONS

CODE I.D. NO.
DRAWING SIZE: D
CONST. CONT. NO.
N62472-95-C-1752
SPEC. 04-95-1752
NAVFAC DRAWING NO.
2179034
SHEET 2 OF 3
PW NO.
FP2-96-310

D:\TP-079E\PRJ\DECKPL 05/30/96 14:18 [25.33]

Appendix A
Inspector Certification



State of Maine
Asbestos Abatement Program

Paul J. Plagge



Inspector

Cert No. AI-0574
Trn.Exp.Date 04/13/2016

Expiration Date 04/30/2016

This is not a legal form of official identification



Appendix B
Laboratory Certifications





May 30, 2014

Laboratory ID: 102754

Aimee Cormier
ProScience Analytical Services, Inc.
22 Cummings Park
Woburn, MA 01801-2122

Dear Ms. Cormier:

Congratulations! The AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC's Analytical Accreditation Board (AAB) has approved ProScience Analytical Services, Inc. as an accredited Environmental Lead laboratory.

Accreditation documentation includes the ELLAP accreditation certificate, scope of accreditation document and a copy of the current AIHA-LAP, LLC license agreement (if your completed agreement is not on file at AIHA-LAP, LLC). The accreditation logo has been designed for use by all AIHA-LAP, LLC accredited laboratories. If your laboratory chooses to use the logo in its advertising the laboratory's accreditation, you must complete and return the AIHA-LAP, LLC license agreement to a Laboratory Accreditation Specialist. Once submitted, an electronic copy of the accreditation logo will be sent to you. Please inform us if your laboratory does not wish to use the logo in advertising.

Laboratory accreditation shall be maintained by continued compliance with ELLAP requirements (*see Policy Modules 2C and 6*), which includes proficient participation in AIHA-LAP, LLC approved proficiency testing, demonstration of competency, or round robin program as indicated on the AIHA-LAP "Approved PT and Round Robin" webpage, its associated PT-Scope table, and as required in Policy Module 6, for all Fields of Testing (FoTs) for which the laboratory is accredited. An accredited laboratory that wishes to expand into a new FoT must submit an updated accreditation application to AIHA-LAP, LLC for review by the AAB.

Any changes in ownership, laboratory location, personnel, FoTs/Methods, or significant procedural changes shall be reported to AIHA-LAP, LLC in writing within twenty (20) business days of the change.

The accreditation certificate is the property of AIHA-LAP, LLC and must be returned to us should your laboratory withdraw or be removed from the Environmental Lead.

Again, congratulations. If you have any questions, please contact Lauren Maher, Laboratory Accreditation Specialist, at (703) 846-0716.

Sincerely,

Cheryl O. Morton
Managing Director
AIHA Laboratory Accreditation Programs, LLC



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801-2122

Laboratory ID: 102754

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|--|-----------------------------------|
| <input type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: 05/01/2016 |
| <input type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| <input type="checkbox"/> UNIQUE SCOPES | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Gerald Schultz, CIH
Chairperson, Analytical Accreditation Board

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 14: 03/26/2014

Date Issued: 05/30/2014



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

ProScience Analytical Services, Inc.
22 Cummings Park, Woburn, MA 01801-2122

Laboratory ID: **102754**
Issue Date: 05/30/2014

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 11/01/1999

Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
Paint	EPA SW-846 3051	
	EPA SW-846 6010B	
	EPA SW-846 7420	
Soil	EPA SW-846 3051	
	EPA SW-846 6010B	
	EPA SW-846 7420	
Settled Dust by Wipe	EPA SW-846 3051	
	EPA SW-846 6010B	
	EPA SW-846 7420	
Airborne Dust	EPA SW-846 6010B	
	EPA SW-846 7420	
	NIOSH 7082 modified	

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



State of Maine
Department of Environmental Protection

LICENSE

ProScience Analytical Services, Inc.

Asbestos Analytical Laboratory
(Air)

License Number: **LA-0056**

Expiration Date: **05/31/2016**



State of Maine
Department of Environmental Protection

LICENSE

ProScience Analytical Services, Inc.

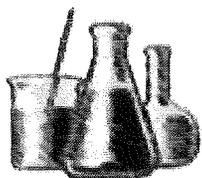
Asbestos Analytical Laboratory
(Bulk)

License Number: **LB-0055**

Expiration Date: **05/31/2016**

Appendix C
Laboratory Reports





ProScience Analytical Services, Inc

Paul Plagge
Wilcox & Barton, Inc., NH
P.O. Box 1630
Derry, NH 03038

November 06, 2014

Dear Paul Plagge,

Results of samples you described and submitted to ProScience Analytical Services, Inc. are shown on the enclosed data sheets. The analytical results in this report apply to the items tested only.

The listed samples were prepared and analyzed in compliance with the New York State Transmission Electron Microscope Method for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples. This method is used for the determination of weight percent of asbestos in non-friable materials.

The sample is processed to remove non-asbestos interference. The remaining residue is examined using a Philips 300 transmission electron microscope equipped with selected area electron diffraction (SAED) and an Evex energy dispersive x-ray analyzer.

The following are reported: identification numbers, type of material, color or the sample, initial weight of the sample, weight percent of organic material lost by ashing, weight percent of carbonates lost by acid dissolution, weight percent of non-fibrous/non asbestos inorganic material, total weight percent of asbestos in the original sample, and the type(s) of asbestos, if any.

The EPA recognizes asbestos as the following: actinolite, amosite, anthophyllite, chrysotile, crocidolite, and tremolite. To be considered asbestos containing, a material must be determined to contain greater than one percent asbestos. Samples are retained for a period of 2 months.

The quality control data related to the samples analyzed are available for review upon the written request of the client. ProScience Analytical Services, Inc. and its personnel assume no responsibility for potential sample contamination, misuse, misinformation, or misrepresentation by the client. The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLAP.

This report may not be reproduced, except in its entirety, without permission of the ProScience Analytical Services, Inc. Laboratory Director.

Please contact me if you have any questions regarding this report or related information.

Sincerely,

Mark Derosier, Senior Analyst
Aimee Cormier, Laboratory Manager

Enclosure:

BATCH NUMBER : NT 14913 CLIENT PROJECT ID: FST0049
Client Ref: DD1 Lifting & Handling Study, PNSY
NVLAP Lab Code 200090-0; CT ID# PH-0209; MA ID# AA000156; ME ID# LB-055; ME ID# LA-056;
AIHA ID# 102754; VT ID# AL016876; PH ID# 218(TEM,PLM); RI ID# 186.

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: FST0049
Client Reference: DD1 Lifting & Handling Study, PNSY
PO #: N/A
Client #: 929
Client Name: Wilcox & Barton, Inc., NH

Batch: NT 14913
Method: NOB
Date Received: 11/3/2014
Date Analyzed: 11/6/2014
Date of Report: 11/6/2014

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT113714	B11-B001	Light Grey Caulking		1.5342	.00	.00	.00	.00	.00	.00	3.61	43.48	52.91	ND	Yes	No
NT113715	B11-B002	Grey Caulking		1.1550	.00	.00	.00	.00	.00	.00	3.32	47.43	49.25	ND	Yes	No

Comments:

Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected


Mark Derosier, Analyst

ProScience Analytical Services, Inc.

www.proscience.net

22 Cummings Park, Woburn, MA 01801 T: 781-935-3212 F: 781-932-4857 general@proscience.net

TAT(Circle)

Rush 12h 24h 48h **3d** 4d 5d Other

TEM

Chain of Custody
ver 3.1 Updated 7/11/11

Off-hours work is available
but subject to PASI
approval and surcharges.

PASI Batch #

NT14913

Client	Name	Wilcox & Barton, Inc.
	Address	57 Hoit Road, Concord, NH 03301
	Job #	FST0049
	Job Name	DD1 Lifting & Handling Study, PNSY
	PO #	

Results

Tel	Fax	Email	HC
		X	

Final Report

Email	Hard Copy
X	

Analysis	Air	Water	Bulk	
	ASHERA Clearance Set	Drinking (EPA 100.2)	NOB	X
ASHERA Method (no set)	Waste (EPA 100.1)	Qualitative		
NIOSH 7402 (PCM Equiv.)	Dust		Soil	
ISO 10312 (direct)	ASTM D6480	Stop 1st Pos		
ISO 13794 (indirect)	ASTM D5755	Other in Comments		

Contact	Name	Paul Plagge	
	Phone/Fax	(603) 369-4190	x506
	Email	pplagge@wilcoxandbarton.com	

Relinquished By

Received By

Relinquished By

Received By

Date / Time

Date / Time

Date / Time

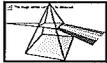
Date / Time

11/3/14

11/3/14 - 3:30 PM

Paul Plagge
[Signature]

Sample ID	Description	Type In, Out, Blk, Pnl, Area	Location / Date & Time Collected	Volume or Area	Comments
B11-B001	Lt Grey Caulking		Concrete Seams between Crane Rails		
B11-B002	Grey Caulking		Base of Bollards		



ProScience Analytical Services, Inc.
22 Cummings Park, Woburn, MA 01801

Telephone: 781-935-3212
Facsimile: 781-932-4857
Email: chemistry@proscience.net

Laboratory Report

Contact: Paul Plagge
Client: Wilcox & Barton, Inc.
Address: 57 Hoit Road
Concord, NH 03301

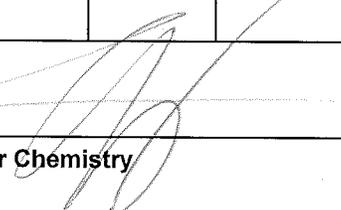
Batch #: C 281740
Date received: 11/3/2014
Date analyzed: 11/4/2014
Date of report: 11/4/2014

Project # FST0049
P.O.# N/A
Project Site: DD1 Lifting & Handling, PNSY
Kittery, ME

AIHA-LAP, LLC Lab ID 102754

Lead Analysis In Paint Using SOP Based on SW846-7420/3051
Results in weight percent on an "as received" weight basis

Lab ID	Client ID	Sample date	Description	Result	Reporting Limit	Comments
C 505406	NDDLBP-01	11/3/14	Yellow Paint on Concrete Wall	0.024	0.021	
C 505407	NDDLBP-02	11/3/14	Yellow Paint Adjacent to Crane Rails	0.53	0.023	
C 505408	NDDLBP-03	11/3/14	Yellow on Bollards	<RL	0.031	
C 505409	NDDLBP-04	11/3/14	Red Paint on Asphalt	<RL	0.030	
C 505410	NDDLBP-05	11/3/14	Red Paint on Concrete	0.26	0.015	
C 505411	NDDLBP-06	11/3/14	Yellow Paint on Concrete Structure	0.11	0.017	
C 505412	NDDLBP-07	11/3/14	Aqua Over Blue on Metal Boxes	<RL	0.029	
C 505413	NDDLBP-08	11/3/14	Yellow Paint on Concrete Adjacent to Crane Rails	0.021	0.016	
C 505414	NDDLBP-09	11/3/14	Yellow Paint on Asphalt Adjacent to Crane Rails	<RL	0.024	



Simona Peavey, Tech. Manager Chemistry
Aimee Cormier, Lab Director

Page 1 of 1

Unless otherwise indicated, all samples were received in acceptable condition.

All result apply only to the samples as received and are accurate to no more than two significant figures.

Unless otherwise indicated, all the quality control criteria for the method above have been met.

RL-Reporting Limit(%by weight)

Note on units: mg/Kg is the same as ppm by weight.

ProScience Analytical Services, Inc.
Chemistry Chain of Custody Record

LABORATORY/HEADQUARTERS
 22 Cummings Park, Woburn, MA 01801
 T:781-935-3212 F:781-932-4857

www.proscience.net
 general@proscience.net

Rush/<6 Hours Turn Around Time Requested
 Same Day Next Day 2 Day 3 Day 5 Days

Client Wilcox & Barton, Inc.
 Address Street 57 Hibit Rd, Concord, NH 0330
 Town Concord State/Zip NH 03301
 Project Site Line 1 DD1 Lifting & Handling Project Number FST0049
 Line 2 PNSY, Wilbury, ME PO
 Contact PAUL PLAGGE Phone 603 369 4170 x506
 FAX
 Alt/Pager

NELAC analysis

TYPE OF ANALYSIS (circle)

DUST WIPES	PAINT (0.1 g)	SOIL (1 g)
AIR	TSP	TCLP (100g)
(min)	PM10	Other

Element gravimetric
 Pb Cd Cr As
 Se Ag Ba Fe
 Other (please specify under Comments)

For Laboratory Use

BATCH NUMBER

C 281740

QC

ASTM E1792

FOR LABORATORY USE ONLY

Date and Time Sampled	Field I.D.	Sample Description/Location	Air Sampling Information				Wiped area			ANALYSIS			Lab I.D.		
			Start Time	End Time	Start Flowrate	End Flowrate	Volume (liters)	length (inch)	width (inch)	Area (sq in)	Weight (grams)	Dil'n		AA/ICP Reading	RESULT
11/3/14	NDD LBP-01	Yellow Paint on Concrete Wall													505406
11/3/14	NDD LBP-02	Yellow Paint on Adjacent to crane Rails													07
11/3/14	B11 LBP-03	Yellow on Bollards													08
11/3/14	NDD LBP-04	Red Paint on Asphalt													09
11/3/14	B11 LBP-05	Red Paint on Concrete													10
11/3/14	B11 LBP-06	Yellow Paint on concrete structure													11
11/3/14	B11 LBP-07	Aqua over Blue on Metal Boxes													12
11/3/14	B13 LBP-08	Yellow Paint on concrete adjacent to Crane Rails													13
11/3/14	SDD LBP-09	Yellow Paint on Asphalt adjacent to Crane Rails													14

Relinquished By: Paul Plagge
 Received By: [Signature]

Date: 11/3/14
 Date: 11/3/14

Time: _____
 Time: 3:30 PM

Comments: _____

ver 5.3

Field blanks are required for airs and wipes per the sampling method.

Proscience Analytical Services reserves the right to subcontract samples to an appropriately accredited laboratory when we are unable to perform the analysis in house.

ProScience Analytical Services, Inc.

PLM Asbestos Chain of Custody Record



RUSH

Turn Around Time Requested

LABORATORY/HEADQUARTERS LABORATORY SERVICES

22 Cummings Park, Woburn, MA 01801 683 North Mountain Rd., Newington, CT 06111

T:781-935-3212 F:781-932-4857 T:860-953-1022 F:860-953-1030

Same day 24 Hour 48 Hour 72 Hour 5 Days

Client: Wilcox & Barton, Inc.

Relinquished by/date: Paul Plagge 3/13/15

Address: 57 Hoit Road, Concord, NH 03301

Received by/date: Doreen Johnson 3/13/15 @ 1:55pm

Project Site & Number: FST0049 DD1 Lifting and Handling Study, PINSY

Samples received: _____ Analyzed: _____

Phone / FAX Number: (603) 369-4190 x506

Faxed, E-mailed, Verbal by/date: pplagge@wilcoxandbarton.com

Contact: Paul Plagge

Stop on first positive: Yes X No _____

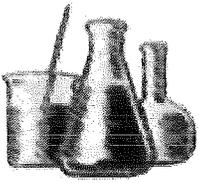
For Lab Use > Batch Number B95464

Analyzed by/date: Robert Weston 3/13/15

QC by/date: DB 3/17/15

Lab ID	Field ID Sampled date	Description / Location	Stereo Scope			Optical Properties								Asbestos Percentage (%)					Non Asbestos Percentage (%)										
			% Asbestos	Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI		Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous		
														⊥														Circle Type	
	13 B003A	Black Rip Wrap on Steam Line under Berth 13	0	BK	N	NP	Y																						
	13 B003B	" " " " under Berth 13	0	BK	N	NP	Y																						100
	13 B004A	Grey Air Cell on Steam Line Under Berth 13	0	BK	N	NP	Y																						60
	13 B004B	" " " " under Berth 13	0	BK	N	NP	Y																						100
	13 B005A	Black Tar Paper on under side of Deck Berth 13	0	BK	N	NP	Y																						20
	13 B005B	" " " " " "	0	BK	N	NP	Y																						20

Comments: Birefringence L= less than .010, M= .011-.029, H= greater than .03; Microscope Olympus BH-2, Serial # circle 1- 242277, 229027, 235000, 230663 Laboratory uses the EPA or ELAP point count method as appropriate



ProScience Analytical Services, Inc

Paul Plagge
Wilcox & Barton, Inc., NH
P.O. Box 1630
Derry, NH 03038

March 18, 2015

Dear Paul Plagge,

Results of samples you described and submitted to ProScience Analytical Services, Inc. are shown on the enclosed data sheets. The analytical results in this report apply to the items tested only.

The listed samples were prepared and analyzed in compliance with the New York State Transmission Electron Microscope Method for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples. This method is used for the determination of weight percent of asbestos in non-friable materials.

The sample is processed to remove non-asbestos interference. The remaining residue is examined using a Philips 300 transmission electron microscope equipped with selected area electron diffraction (SAED) and an Evex energy dispersive x-ray analyzer.

The following are reported: identification numbers, type of material, color of the sample, initial weight of the sample, weight percent of organic material lost by ashing, weight percent of carbonates lost by acid dissolution, weight percent of non-fibrous/non asbestos inorganic material, total weight percent of asbestos in the original sample, and the type(s) of asbestos, if any.

The EPA recognizes asbestos as the following: actinolite, amosite, anthophyllite, chrysotile, crocidolite, and tremolite. To be considered asbestos containing, a material must be determined to contain greater than one percent asbestos. Samples are retained for a period of 2 months.

The quality control data related to the samples analyzed are available for review upon the written request of the client. ProScience Analytical Services, Inc. and its personnel assume no responsibility for potential sample contamination, misuse, misinformation, or misrepresentation by the client. The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLAP. This report may not be reproduced, except in its entirety, without permission of the ProScience Analytical Services, Inc. Laboratory Director.

1

Please contact me if you have any questions regarding this report or related information.

Sincerely,

Mark Derosier, Senior Analyst
Aimee Cormier, Laboratory Manager

Enclosure:

BATCH NUMBER : NT 15085 CLIENT PROJECT ID: FST0049

Client Ref: DD1 Lifting & Handling Study, PNSY

NVLAP Lab Code 200090-0; CT ID# PH-0209; MA ID# AA000156; ME ID# LB-055; ME ID# LA-056;

AIHA ID# 102754; VT ID# AL016876; PH ID# 218(TEM,PLM); RI ID# 186.

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: FST0049
Client Reference: DD1 Lifting & Handling Study, PNSY
PO #: N/A
Client #: 929
Client Name: Wilcox & Barton, Inc., NH

Batch: NT 15085
Method: NOB
Date Received: 3/13/2015
Date Analyzed: 3/18/2015
Date of Report: 3/18/2015

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT114782	13-B006	Lt. Grey Caulk		1.1775	.00	.00	.00	.00	.00	.00	7.55	51.13	41.32	ND	Yes	No

Comments:

Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected


Mark Derosier, Analyst

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801 T: 781-935-3212 F: 781-932-4857 general@proscience.net

www.proscience.net

TAI (Circle)

Rush 12h 24h 48h **3d** 4d 5d Other

TEM

Chain of Custody
ver 3.1 Updated 7/11/11

Off-hours work is available
but subject to PASI
approval and surcharges.

PASI Batch #

NT15085

Client	Name	Wilcox & Barton, Inc.
	Address	57 Hoit Road, Concord, NH 03301
	Job #	FST0049
	Job Name	DD1 Lifting & Handling Study, PNSY
	PO #	

Results

Tel	Fax	Email	HC
		X	

Final Report

Email	Hard Copy
X	

Analysis	Air	Water	Bulk	
	AHERA Clearance Set	Drinking (EPA 100.2)	NOB	X
	AHERA Method (no set)	Waste (EPA 100.1)	Qualitative	
	NIOSH 7402 (PCM Equiv.)	Dust		Soil
	ISO 10312 (direct)	ASTM D6480	Stop 1st Pos	
	ISO 13794 (indirect)	ASTM D5755	Other in Comments	

Contact	Name	Paul Plagge	
	Phone/Fax	(603) 369-4190	x506
	Email	pplagge@wilcoxandbarton.com	

Relinquished By *Paul Plagge*

Date / Time

3/13/15

Received By *Doreen Downes*

Date / Time

3/13/15 1:55 PM

Relinquished By _____

Date / Time _____

Received By _____

Date / Time _____

Sample ID	Description	Type In, Out, Blk, Pnl, Area	Location / Date & Time Collected	Volume or Area	Comments
<i>13-B006</i>	<i>St. Gray Curlik</i>		<i>Underneath Concrete Deck</i>		



ANALYTICAL REPORT

Lab Number:	L1430143
Client:	Haley & Aldrich 3 Bedford Farms Drive Bedford, NH 03110
ATTN:	Meghan Hatton
Phone:	(603) 625-5353
Project Name:	PNSY
Project Number:	41242-000
Report Date:	12/21/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1430143-01	LB-01_1-5	SOIL	KITTERY, MAINE	12/15/14 10:25	12/15/14
L1430143-02	LB-01_5-10	SOIL	KITTERY, MAINE	12/15/14 10:40	12/15/14

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Case Narrative (continued)

PCBs

The surrogate recoveries for L1430143-02 (LB-01_5-10) are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (20%/22%) and decachlorobiphenyl (16%/14%); however, re-extraction achieved similar results for 2,4,5,6-tetrachloro-m-xylene (28%/29%). The results of both extractions are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 12/21/14

ORGANICS

VOLATILES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-01
 Client ID: LB-01_1-5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/17/14 21:04
 Analyst: MV
 Percent Solids: 93%

Date Collected: 12/15/14 10:25
 Date Received: 12/15/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	18	--	1
1,1-Dichloroethane	ND		ug/kg	2.7	--	1
Chloroform	ND		ug/kg	2.7	--	1
Carbon tetrachloride	ND		ug/kg	1.8	--	1
1,2-Dichloropropane	ND		ug/kg	6.3	--	1
Dibromochloromethane	ND		ug/kg	1.8	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.7	--	1
Tetrachloroethene	ND		ug/kg	1.8	--	1
Chlorobenzene	ND		ug/kg	1.8	--	1
Trichlorofluoromethane	ND		ug/kg	9.0	--	1
1,2-Dichloroethane	ND		ug/kg	1.8	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.8	--	1
Bromodichloromethane	ND		ug/kg	1.8	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.8	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.8	--	1
1,1-Dichloropropene	ND		ug/kg	9.0	--	1
Bromoform	ND		ug/kg	7.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.8	--	1
Benzene	ND		ug/kg	1.8	--	1
Toluene	ND		ug/kg	2.7	--	1
Ethylbenzene	ND		ug/kg	1.8	--	1
Chloromethane	ND		ug/kg	9.0	--	1
Bromomethane	ND		ug/kg	3.6	--	1
Vinyl chloride	ND		ug/kg	3.6	--	1
Chloroethane	ND		ug/kg	3.6	--	1
1,1-Dichloroethene	ND		ug/kg	1.8	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.7	--	1
Trichloroethene	ND		ug/kg	1.8	--	1
1,2-Dichlorobenzene	ND		ug/kg	9.0	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-01
Client ID: LB-01_1-5
Sample Location: KITTERY, MAINE

Date Collected: 12/15/14 10:25
Date Received: 12/15/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	9.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	9.0	--	1
Methyl tert butyl ether	ND		ug/kg	3.6	--	1
p/m-Xylene	ND		ug/kg	3.6	--	1
o-Xylene	ND		ug/kg	3.6	--	1
Xylenes, Total	ND		ug/kg	3.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.8	--	1
Dibromomethane	ND		ug/kg	18	--	1
1,4-Dichlorobutane	ND		ug/kg	18	--	1
1,2,3-Trichloropropane	ND		ug/kg	18	--	1
Styrene	ND		ug/kg	3.6	--	1
Dichlorodifluoromethane	ND		ug/kg	18	--	1
Acetone	ND		ug/kg	65	--	1
Carbon disulfide	ND		ug/kg	18	--	1
2-Butanone	ND		ug/kg	18	--	1
Vinyl acetate	ND		ug/kg	18	--	1
4-Methyl-2-pentanone	ND		ug/kg	18	--	1
2-Hexanone	ND		ug/kg	18	--	1
Ethyl methacrylate	ND		ug/kg	18	--	1
Acrylonitrile	ND		ug/kg	7.2	--	1
Bromochloromethane	ND		ug/kg	9.0	--	1
Tetrahydrofuran	ND		ug/kg	36	--	1
2,2-Dichloropropane	ND		ug/kg	9.0	--	1
1,2-Dibromoethane	ND		ug/kg	7.2	--	1
1,3-Dichloropropane	ND		ug/kg	9.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.8	--	1
Bromobenzene	ND		ug/kg	9.0	--	1
n-Butylbenzene	ND		ug/kg	1.8	--	1
sec-Butylbenzene	ND		ug/kg	1.8	--	1
tert-Butylbenzene	ND		ug/kg	9.0	--	1
o-Chlorotoluene	ND		ug/kg	9.0	--	1
p-Chlorotoluene	ND		ug/kg	9.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.0	--	1
Hexachlorobutadiene	ND		ug/kg	9.0	--	1
Isopropylbenzene	ND		ug/kg	1.8	--	1
p-Isopropyltoluene	ND		ug/kg	1.8	--	1
Naphthalene	ND		ug/kg	9.0	--	1
n-Propylbenzene	ND		ug/kg	1.8	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-01
Client ID: LB-01_1-5
Sample Location: KITTERY, MAINE

Date Collected: 12/15/14 10:25
Date Received: 12/15/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	9.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	9.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	9.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	9.0	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.0	--	1
Ethyl ether	ND		ug/kg	9.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	87		70-130

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-02
 Client ID: LB-01_5-10
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/17/14 21:31
 Analyst: MV
 Percent Solids: 87%

Date Collected: 12/15/14 10:40
 Date Received: 12/15/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	16	--	1
1,1-Dichloroethane	ND		ug/kg	2.3	--	1
Chloroform	ND		ug/kg	2.3	--	1
Carbon tetrachloride	ND		ug/kg	1.6	--	1
1,2-Dichloropropane	ND		ug/kg	5.4	--	1
Dibromochloromethane	ND		ug/kg	1.6	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.3	--	1
Tetrachloroethene	ND		ug/kg	1.6	--	1
Chlorobenzene	ND		ug/kg	1.6	--	1
Trichlorofluoromethane	ND		ug/kg	7.8	--	1
1,2-Dichloroethane	ND		ug/kg	1.6	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	--	1
Bromodichloromethane	ND		ug/kg	1.6	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.6	--	1
1,1-Dichloropropene	ND		ug/kg	7.8	--	1
Bromoform	ND		ug/kg	6.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	--	1
Benzene	ND		ug/kg	1.6	--	1
Toluene	ND		ug/kg	2.3	--	1
Ethylbenzene	ND		ug/kg	1.6	--	1
Chloromethane	ND		ug/kg	7.8	--	1
Bromomethane	ND		ug/kg	3.1	--	1
Vinyl chloride	ND		ug/kg	3.1	--	1
Chloroethane	ND		ug/kg	3.1	--	1
1,1-Dichloroethene	ND		ug/kg	1.6	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	--	1
Trichloroethene	ND		ug/kg	1.6	--	1
1,2-Dichlorobenzene	ND		ug/kg	7.8	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-02
Client ID: LB-01_5-10
Sample Location: KITTERY, MAINE

Date Collected: 12/15/14 10:40
Date Received: 12/15/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	7.8	--	1
1,4-Dichlorobenzene	ND		ug/kg	7.8	--	1
Methyl tert butyl ether	ND		ug/kg	3.1	--	1
p/m-Xylene	ND		ug/kg	3.1	--	1
o-Xylene	ND		ug/kg	3.1	--	1
Xylenes, Total	ND		ug/kg	3.1	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	--	1
Dibromomethane	ND		ug/kg	16	--	1
1,4-Dichlorobutane	ND		ug/kg	16	--	1
1,2,3-Trichloropropane	ND		ug/kg	16	--	1
Styrene	ND		ug/kg	3.1	--	1
Dichlorodifluoromethane	ND		ug/kg	16	--	1
Acetone	ND		ug/kg	56	--	1
Carbon disulfide	ND		ug/kg	16	--	1
2-Butanone	ND		ug/kg	16	--	1
Vinyl acetate	ND		ug/kg	16	--	1
4-Methyl-2-pentanone	ND		ug/kg	16	--	1
2-Hexanone	ND		ug/kg	16	--	1
Ethyl methacrylate	ND		ug/kg	16	--	1
Acrylonitrile	ND		ug/kg	6.2	--	1
Bromochloromethane	ND		ug/kg	7.8	--	1
Tetrahydrofuran	ND		ug/kg	31	--	1
2,2-Dichloropropane	ND		ug/kg	7.8	--	1
1,2-Dibromoethane	ND		ug/kg	6.2	--	1
1,3-Dichloropropane	ND		ug/kg	7.8	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.6	--	1
Bromobenzene	ND		ug/kg	7.8	--	1
n-Butylbenzene	ND		ug/kg	1.6	--	1
sec-Butylbenzene	ND		ug/kg	1.6	--	1
tert-Butylbenzene	ND		ug/kg	7.8	--	1
o-Chlorotoluene	ND		ug/kg	7.8	--	1
p-Chlorotoluene	ND		ug/kg	7.8	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.8	--	1
Hexachlorobutadiene	ND		ug/kg	7.8	--	1
Isopropylbenzene	ND		ug/kg	1.6	--	1
p-Isopropyltoluene	ND		ug/kg	1.6	--	1
Naphthalene	ND		ug/kg	7.8	--	1
n-Propylbenzene	ND		ug/kg	1.6	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-02
Client ID: LB-01_5-10
Sample Location: KITTERY, MAINE

Date Collected: 12/15/14 10:40
Date Received: 12/15/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	7.8	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.8	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.8	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.8	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.8	--	1
Ethyl ether	ND		ug/kg	7.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	88		70-130

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/17/14 14:51
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG749849-3					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	5.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	5.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	5.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/17/14 14:51
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG749849-3					
Trichloroethene	ND		ug/kg	1.0	--
1,2-Dichlorobenzene	ND		ug/kg	5.0	--
1,3-Dichlorobenzene	ND		ug/kg	5.0	--
1,4-Dichlorobenzene	ND		ug/kg	5.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	10	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	10	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	10	--
2-Butanone	ND		ug/kg	10	--
Vinyl acetate	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrolein	ND		ug/kg	25	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	5.0	--
Tetrahydrofuran	ND		ug/kg	20	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	5.0	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/17/14 14:51
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG749849-3					
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	5.0	--
1,3,5-Trichlorobenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	5.0	--
p-Chlorotoluene	ND		ug/kg	5.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	--
Hexachlorobutadiene	ND		ug/kg	5.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	5.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Ethyl ether	ND		ug/kg	5.0	--
Methyl Acetate	ND		ug/kg	20	--
Ethyl Acetate	ND		ug/kg	20	--
Isopropyl Ether	ND		ug/kg	4.0	--
Cyclohexane	ND		ug/kg	20	--
Tert-Butyl Alcohol	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	100	--
Methyl cyclohexane	ND		ug/kg	4.0	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/17/14 14:51
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG749849-3					
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	88		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG749849-1 WG749849-2								
Methylene chloride	100		99		70-130	1		30
1,1-Dichloroethane	109		114		70-130	4		30
Chloroform	88		90		70-130	2		30
Carbon tetrachloride	87		90		70-130	3		30
1,2-Dichloropropane	114		118		70-130	3		30
Dibromochloromethane	84		92		70-130	9		30
1,1,2-Trichloroethane	90		92		70-130	2		30
2-Chloroethylvinyl ether	107		112		70-130	5		30
Tetrachloroethene	98		100		70-130	2		30
Chlorobenzene	93		95		70-130	2		30
Trichlorofluoromethane	65	Q	66	Q	70-139	2		30
1,2-Dichloroethane	93		96		70-130	3		30
1,1,1-Trichloroethane	85		88		70-130	3		30
Bromodichloromethane	81		87		70-130	7		30
trans-1,3-Dichloropropene	88		92		70-130	4		30
cis-1,3-Dichloropropene	96		101		70-130	5		30
1,1-Dichloropropene	102		104		70-130	2		30
Bromoform	76		82		70-130	8		30
1,1,2,2-Tetrachloroethane	88		90		70-130	2		30
Benzene	103		105		70-130	2		30
Toluene	94		98		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG749849-1 WG749849-2								
Ethylbenzene	95		97		70-130	2		30
Chloromethane	139	Q	142	Q	52-130	2		30
Bromomethane	87		90		57-147	3		30
Vinyl chloride	118		121		67-130	3		30
Chloroethane	90		90		50-151	0		30
1,1-Dichloroethene	98		102		65-135	4		30
trans-1,2-Dichloroethene	100		103		70-130	3		30
Trichloroethene	95		97		70-130	2		30
1,2-Dichlorobenzene	97		98		70-130	1		30
1,3-Dichlorobenzene	98		99		70-130	1		30
1,4-Dichlorobenzene	97		99		70-130	2		30
Methyl tert butyl ether	99		102		66-130	3		30
p/m-Xylene	99		101		70-130	2		30
o-Xylene	99		102		70-130	3		30
cis-1,2-Dichloroethene	99		102		70-130	3		30
Dibromomethane	84		88		70-130	5		30
1,4-Dichlorobutane	117		119		70-130	2		30
1,2,3-Trichloropropane	92		94		68-130	2		30
Styrene	96		100		70-130	4		30
Dichlorodifluoromethane	78		79		30-146	1		30
Acetone	123		125		54-140	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG749849-1 WG749849-2								
Carbon disulfide	90		97		59-130	7		30
2-Butanone	130		138	Q	70-130	6		30
Vinyl acetate	118		125		70-130	6		30
4-Methyl-2-pentanone	123		128		70-130	4		30
2-Hexanone	122		127		70-130	4		30
Ethyl methacrylate	99		103		70-130	4		30
Acrolein	127		135	Q	70-130	6		30
Acrylonitrile	139	Q	144	Q	70-130	4		30
Bromochloromethane	101		104		70-130	3		30
Tetrahydrofuran	144	Q	144	Q	66-130	0		30
2,2-Dichloropropane	89		91		70-130	2		30
1,2-Dibromoethane	88		93		70-130	6		30
1,3-Dichloropropane	94		97		69-130	3		30
1,1,1,2-Tetrachloroethane	89		93		70-130	4		30
Bromobenzene	98		100		70-130	2		30
n-Butylbenzene	93		94		70-130	1		30
sec-Butylbenzene	94		94		70-130	0		30
tert-Butylbenzene	99		99		70-130	0		30
1,3,5-Trichlorobenzene	99		100		70-139	1		30
o-Chlorotoluene	95		97		70-130	2		30
p-Chlorotoluene	96		96		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG749849-1 WG749849-2								
1,2-Dibromo-3-chloropropane	78		83		68-130	6		30
Hexachlorobutadiene	88		90		67-130	2		30
Isopropylbenzene	95		96		70-130	1		30
p-Isopropyltoluene	99		100		70-130	1		30
Naphthalene	100		100		70-130	0		30
n-Propylbenzene	95		95		70-130	0		30
1,2,3-Trichlorobenzene	96		96		70-130	0		30
1,2,4-Trichlorobenzene	98		98		70-130	0		30
1,3,5-Trimethylbenzene	95		94		70-130	1		30
1,2,4-Trimethylbenzene	95		96		70-130	1		30
trans-1,4-Dichloro-2-butene	94		97		70-130	3		30
Halothane	97		100		70-130	3		20
Ethyl ether	105		106		67-130	1		30
Methyl Acetate	130		132	Q	65-130	2		30
Ethyl Acetate	132	Q	135	Q	70-130	2		30
Isopropyl Ether	148	Q	150	Q	66-130	1		30
Cyclohexane	128		131	Q	70-130	2		30
Tert-Butyl Alcohol	98		105		70-130	7		30
Ethyl-Tert-Butyl-Ether	117		119		70-130	2		30
Tertiary-Amyl Methyl Ether	99		103		70-130	4		30
1,4-Dioxane	96		101		65-136	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG749849-1 WG749849-2								
Methyl cyclohexane	96		97		70-130	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	88		90		70-130	2		30
1,4-Diethylbenzene	99		100		70-130	1		30
4-Ethyltoluene	95		95		70-130	0		30
1,2,4,5-Tetramethylbenzene	99		100		70-130	1		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	90		91		70-130
Toluene-d8	94		95		70-130
4-Bromofluorobenzene	100		98		70-130
Dibromofluoromethane	92		92		70-130

SEMIVOLATILES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-01
 Client ID: LB-01_1-5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/17/14 16:13
 Analyst: AS
 Percent Solids: 93%

Date Collected: 12/15/14 10:25
 Date Received: 12/15/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/16/14 16:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	--	1
2-Chloronaphthalene	ND		ug/kg	180	--	1
Fluoranthene	ND		ug/kg	100	--	1
Naphthalene	ND		ug/kg	180	--	1
Benzo(a)anthracene	ND		ug/kg	100	--	1
Benzo(a)pyrene	ND		ug/kg	140	--	1
Benzo(b)fluoranthene	ND		ug/kg	100	--	1
Benzo(k)fluoranthene	ND		ug/kg	100	--	1
Chrysene	ND		ug/kg	100	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	ND		ug/kg	100	--	1
Benzo(ghi)perylene	ND		ug/kg	140	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	ND		ug/kg	100	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	140	--	1
Pyrene	ND		ug/kg	100	--	1
1-Methylnaphthalene	ND		ug/kg	180	--	1
2-Methylnaphthalene	ND		ug/kg	210	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	87		30-120
4-Terphenyl-d14	90		18-120

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-02
 Client ID: LB-01_5-10
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/17/14 16:38
 Analyst: AS
 Percent Solids: 87%

Date Collected: 12/15/14 10:40
 Date Received: 12/15/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/16/14 16:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	--	1
2-Chloronaphthalene	ND		ug/kg	190	--	1
Fluoranthene	ND		ug/kg	110	--	1
Naphthalene	ND		ug/kg	190	--	1
Benzo(a)anthracene	ND		ug/kg	110	--	1
Benzo(a)pyrene	ND		ug/kg	150	--	1
Benzo(b)fluoranthene	ND		ug/kg	110	--	1
Benzo(k)fluoranthene	ND		ug/kg	110	--	1
Chrysene	ND		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	150	--	1
Anthracene	ND		ug/kg	110	--	1
Benzo(ghi)perylene	ND		ug/kg	150	--	1
Fluorene	ND		ug/kg	190	--	1
Phenanthrene	ND		ug/kg	110	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	--	1
Pyrene	ND		ug/kg	110	--	1
1-Methylnaphthalene	ND		ug/kg	190	--	1
2-Methylnaphthalene	ND		ug/kg	230	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	64		30-120
4-Terphenyl-d14	65		18-120

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 12/17/14 13:44
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 12/16/14 16:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG749141-1					
Acenaphthene	ND		ug/kg	130	--
2-Chloronaphthalene	ND		ug/kg	160	--
Fluoranthene	ND		ug/kg	97	--
Naphthalene	ND		ug/kg	160	--
Benzo(a)anthracene	ND		ug/kg	97	--
Benzo(a)pyrene	ND		ug/kg	130	--
Benzo(b)fluoranthene	ND		ug/kg	97	--
Benzo(k)fluoranthene	ND		ug/kg	97	--
Chrysene	ND		ug/kg	97	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	97	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	97	--
Dibenzo(a,h)anthracene	ND		ug/kg	97	--
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	97	--
1-Methylnaphthalene	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	190	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	94		30-120
4-Terphenyl-d14	100		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG749141-2 WG749141-3								
Acenaphthene	93		59		31-137	45		50
2-Chloronaphthalene	109		66		40-140	49		50
Fluoranthene	108		70		40-140	43		50
Naphthalene	89		56		40-140	46		50
Benzo(a)anthracene	98		64		40-140	42		50
Benzo(a)pyrene	99		63		40-140	44		50
Benzo(b)fluoranthene	106		69		40-140	42		50
Benzo(k)fluoranthene	92		59		40-140	44		50
Chrysene	97		63		40-140	43		50
Acenaphthylene	106		64		40-140	49		50
Anthracene	101		66		40-140	42		50
Benzo(ghi)perylene	92		58		40-140	45		50
Fluorene	101		63		40-140	46		50
Phenanthrene	100		64		40-140	44		50
Dibenzo(a,h)anthracene	97		61		40-140	46		50
Indeno(1,2,3-cd)Pyrene	96		59		40-140	48		50
Pyrene	108		69		35-142	44		50
1-Methylnaphthalene	114		69			49		50
2-Methylnaphthalene	105		66		40-140	46		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG749141-2 WG749141-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Nitrobenzene-d5	92		58		23-120
2-Fluorobiphenyl	110		63		30-120
4-Terphenyl-d14	113		72		18-120

PETROLEUM HYDROCARBONS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-01
 Client ID: LB-01_1-5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8015C(M)
 Analytical Date: 12/18/14 19:03
 Analyst: AR
 Percent Solids: 93%

Date Collected: 12/15/14 10:25
 Date Received: 12/15/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/16/14 20:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

TPH	80400		ug/kg	34500	--	1
-----	-------	--	-------	-------	----	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	94		40-140

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-02
 Client ID: LB-01_5-10
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8015C(M)
 Analytical Date: 12/18/14 01:45
 Analyst: KB
 Percent Solids: 87%

Date Collected: 12/15/14 10:40
 Date Received: 12/15/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/16/14 20:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

TPH	ND		ug/kg	38000	--	1
-----	----	--	-------	-------	----	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	98		40-140

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 12/17/14 18:03
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 12/16/14 20:54

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-02 Batch: WG749201-1					
TPH	ND		ug/kg	31500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	106		40-140

Lab Control Sample Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 Batch: WG749201-2								
TPH	86		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	91				40-140

Lab Duplicate Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG749201-3 QC Sample: L1430050-01 Client ID: DUP Sample						
TPH	431000	425000	ug/kg	1		40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	91		83		40-140



PCBS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-01
Client ID: LB-01_1-5
Sample Location: KITTERY, MAINE
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/18/14 16:57
Analyst: JW
Percent Solids: 93%

Date Collected: 12/15/14 10:25
Date Received: 12/15/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 12/18/14 11:51
Cleanup Method: EPA 3665A
Cleanup Date: 12/18/14
Cleanup Method: EPA 3660B
Cleanup Date: 12/18/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
PCB by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	--	1	A
Aroclor 1221	ND		ug/kg	35.8	--	1	A
Aroclor 1232	ND		ug/kg	35.8	--	1	A
Aroclor 1242	ND		ug/kg	35.8	--	1	A
Aroclor 1248	ND		ug/kg	35.8	--	1	A
Aroclor 1254	ND		ug/kg	35.8	--	1	A
Aroclor 1260	ND		ug/kg	35.8	--	1	A
Aroclor 1262	ND		ug/kg	35.8	--	1	A
Aroclor 1268	ND		ug/kg	35.8	--	1	A
PCBs, Total	ND		ug/kg	35.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-02
 Client ID: LB-01_5-10
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/18/14 17:09
 Analyst: JW
 Percent Solids: 87%

Date Collected: 12/15/14 10:40
 Date Received: 12/15/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/18/14 11:51
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/18/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/18/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
PCB by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.4	--	1	A
Aroclor 1221	ND		ug/kg	36.4	--	1	A
Aroclor 1232	ND		ug/kg	36.4	--	1	A
Aroclor 1242	ND		ug/kg	36.4	--	1	A
Aroclor 1248	ND		ug/kg	36.4	--	1	A
Aroclor 1254	ND		ug/kg	36.4	--	1	A
Aroclor 1260	ND		ug/kg	36.4	--	1	A
Aroclor 1262	ND		ug/kg	36.4	--	1	A
Aroclor 1268	ND		ug/kg	36.4	--	1	A
PCBs, Total	ND		ug/kg	36.4	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	20	Q	30-150	A
Decachlorobiphenyl	16	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	22	Q	30-150	B
Decachlorobiphenyl	14	Q	30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-02 RE
 Client ID: LB-01_5-10
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/19/14 23:35
 Analyst: JW
 Percent Solids: 87%

Date Collected: 12/15/14 10:40
 Date Received: 12/15/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/19/14 13:51
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/19/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/19/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
PCB by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	--	1	A
Aroclor 1221	ND		ug/kg	37.4	--	1	A
Aroclor 1232	ND		ug/kg	37.4	--	1	A
Aroclor 1242	ND		ug/kg	37.4	--	1	A
Aroclor 1248	ND		ug/kg	37.4	--	1	A
Aroclor 1254	ND		ug/kg	37.4	--	1	A
Aroclor 1260	ND		ug/kg	37.4	--	1	A
Aroclor 1262	ND		ug/kg	37.4	--	1	A
Aroclor 1268	ND		ug/kg	37.4	--	1	A
PCBs, Total	ND		ug/kg	37.4	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	28	Q	30-150	A
Decachlorobiphenyl	30		30-150	A
2,4,5,6-Tetrachloro-m-xylene	29	Q	30-150	B
Decachlorobiphenyl	31		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8082A
 Analytical Date: 12/18/14 15:30
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 12/18/14 11:51
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/18/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/18/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
PCB by GC - Westborough Lab for sample(s): 01 Batch: WG749892-1						
Aroclor 1016	ND		ug/kg	32.2	--	A
Aroclor 1221	ND		ug/kg	32.2	--	A
Aroclor 1232	ND		ug/kg	32.2	--	A
Aroclor 1242	ND		ug/kg	32.2	--	A
Aroclor 1248	ND		ug/kg	32.2	--	A
Aroclor 1254	ND		ug/kg	32.2	--	A
Aroclor 1260	ND		ug/kg	32.2	--	A
Aroclor 1262	ND		ug/kg	32.2	--	A
Aroclor 1268	ND		ug/kg	32.2	--	A
PCBs, Total	ND		ug/kg	32.2	--	A

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	43		30-150	B



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 12/19/14 22:08
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 12/19/14 12:54
Cleanup Method: EPA 3665A
Cleanup Date: 12/19/14
Cleanup Method: EPA 3660B
Cleanup Date: 12/19/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
PCB by GC - Westborough Lab for sample(s): 02 Batch: WG750366-1						
Aroclor 1016	ND		ug/kg	32.2	--	A
Aroclor 1221	ND		ug/kg	32.2	--	A
Aroclor 1232	ND		ug/kg	32.2	--	A
Aroclor 1242	ND		ug/kg	32.2	--	A
Aroclor 1248	ND		ug/kg	32.2	--	A
Aroclor 1254	ND		ug/kg	32.2	--	A
Aroclor 1260	ND		ug/kg	32.2	--	A
Aroclor 1262	ND		ug/kg	32.2	--	A
Aroclor 1268	ND		ug/kg	32.2	--	A
PCBs, Total	ND		ug/kg	32.2	--	A

Surrogate	%Recovery	Qualifier	Acceptance	Column
			Criteria	
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	85		30-150	B



Lab Control Sample Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
PCB by GC - Westborough Lab Associated sample(s): 01 Batch: WG749892-2 WG749892-3									
Aroclor 1016	58		54		40-140	7		50	A
Aroclor 1260	56		53		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		59		30-150	A
Decachlorobiphenyl	56		57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		64		30-150	B
Decachlorobiphenyl	49		51		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
PCB by GC - Westborough Lab Associated sample(s): 02 Batch: WG750366-2 WG750366-3									
Aroclor 1016	46		73		40-140	45		50	A
Aroclor 1260	41		69		40-140	51	Q	50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		73		30-150	A
Decachlorobiphenyl	58		83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		73		30-150	B
Decachlorobiphenyl	59		86		30-150	B

PESTICIDES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-01
 Client ID: LB-01_1-5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 12/19/14 14:26
 Analyst: GP
 Percent Solids: 93%

Date Collected: 12/15/14 10:25
 Date Received: 12/15/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/18/14 11:27
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/19/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	8.42	--	1	A
Lindane	ND		ug/kg	3.51	--	1	A
Alpha-BHC	ND		ug/kg	3.51	--	1	A
Beta-BHC	ND		ug/kg	8.42	--	1	A
Heptachlor	ND		ug/kg	4.21	--	1	A
Aldrin	ND		ug/kg	8.42	--	1	A
Heptachlor epoxide	ND		ug/kg	15.8	--	1	A
Endrin	ND		ug/kg	3.51	--	1	A
Endrin aldehyde	ND		ug/kg	10.5	--	1	A
Endrin ketone	ND		ug/kg	8.42	--	1	A
Dieldrin	ND		ug/kg	5.26	--	1	A
4,4'-DDE	ND		ug/kg	8.42	--	1	A
4,4'-DDD	ND		ug/kg	8.42	--	1	A
4,4'-DDT	ND		ug/kg	15.8	--	1	A
Endosulfan I	ND		ug/kg	8.42	--	1	A
Endosulfan II	ND		ug/kg	8.42	--	1	A
Endosulfan sulfate	ND		ug/kg	3.51	--	1	A
Methoxychlor	ND		ug/kg	15.8	--	1	A
Toxaphene	ND		ug/kg	158	--	1	A
Chlordane	ND		ug/kg	68.4	--	1	A
cis-Chlordane	ND		ug/kg	10.5	--	1	A
trans-Chlordane	ND		ug/kg	10.5	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-01
 Client ID: LB-01_1-5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/17/14 19:46
 Analyst: SS
 Percent Solids: 93%
 Methylation Date: 12/17/14 04:39

Date Collected: 12/15/14 10:25
 Date Received: 12/15/14
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 12/16/14 16:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	178	--	1	A
2,4,5-T	ND		ug/kg	178	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	178	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	73		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-02
 Client ID: LB-01_5-10
 Sample Location: KITTEERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 12/19/14 14:42
 Analyst: GP
 Percent Solids: 87%

Date Collected: 12/15/14 10:40
 Date Received: 12/15/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/18/14 11:27
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/19/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	9.14	--	1	A
Lindane	ND		ug/kg	3.81	--	1	A
Alpha-BHC	ND		ug/kg	3.81	--	1	A
Beta-BHC	ND		ug/kg	9.14	--	1	A
Heptachlor	ND		ug/kg	4.57	--	1	A
Aldrin	ND		ug/kg	9.14	--	1	A
Heptachlor epoxide	ND		ug/kg	17.1	--	1	A
Endrin	ND		ug/kg	3.81	--	1	A
Endrin aldehyde	ND		ug/kg	11.4	--	1	A
Endrin ketone	ND		ug/kg	9.14	--	1	A
Dieldrin	ND		ug/kg	5.71	--	1	A
4,4'-DDE	ND		ug/kg	9.14	--	1	A
4,4'-DDD	ND		ug/kg	9.14	--	1	A
4,4'-DDT	ND		ug/kg	17.1	--	1	A
Endosulfan I	ND		ug/kg	9.14	--	1	A
Endosulfan II	ND		ug/kg	9.14	--	1	A
Endosulfan sulfate	ND		ug/kg	3.81	--	1	A
Methoxychlor	ND		ug/kg	17.1	--	1	A
Toxaphene	ND		ug/kg	171	--	1	A
Chlordane	ND		ug/kg	74.2	--	1	A
cis-Chlordane	ND		ug/kg	11.4	--	1	A
trans-Chlordane	ND		ug/kg	11.4	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	93		30-150	A

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-02
 Client ID: LB-01_5-10
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/17/14 20:06
 Analyst: SS
 Percent Solids: 87%
 Methylation Date: 12/17/14 04:39

Date Collected: 12/15/14 10:40
 Date Received: 12/15/14
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 12/16/14 16:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	191	--	1	A
2,4,5-T	ND		ug/kg	191	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	191	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	84		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/17/14 17:41
Analyst: SS

Extraction Method: EPA 8151A
Extraction Date: 12/16/14 16:17

Methylation Date: 12/17/14 04:39

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02 Batch: WG749128-1						
2,4-D	ND		ug/kg	164	--	A
2,4,5-T	ND		ug/kg	164	--	A
2,4,5-TP (Silvex)	ND		ug/kg	164	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	78		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/19/14 13:40
Analyst: GP

Extraction Method: EPA 3546
Extraction Date: 12/18/14 11:27
Cleanup Method: EPA 3620B
Cleanup Date: 12/19/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG749882-1						
Delta-BHC	ND		ug/kg	7.87	--	A
Lindane	ND		ug/kg	3.28	--	A
Alpha-BHC	ND		ug/kg	3.28	--	A
Beta-BHC	ND		ug/kg	7.87	--	A
Heptachlor	ND		ug/kg	3.94	--	A
Aldrin	ND		ug/kg	7.87	--	A
Heptachlor epoxide	ND		ug/kg	14.8	--	A
Endrin	ND		ug/kg	3.28	--	A
Endrin aldehyde	ND		ug/kg	9.84	--	A
Endrin ketone	ND		ug/kg	7.87	--	A
Dieldrin	ND		ug/kg	4.92	--	A
4,4'-DDE	ND		ug/kg	7.87	--	A
4,4'-DDD	ND		ug/kg	7.87	--	A
4,4'-DDT	ND		ug/kg	14.8	--	A
Endosulfan I	ND		ug/kg	7.87	--	A
Endosulfan II	ND		ug/kg	7.87	--	A
Endosulfan sulfate	ND		ug/kg	3.28	--	A
Methoxychlor	ND		ug/kg	14.8	--	A
Toxaphene	ND		ug/kg	148	--	A
Chlordane	ND		ug/kg	64.0	--	A
cis-Chlordane	ND		ug/kg	9.84	--	A
trans-Chlordane	ND		ug/kg	9.84	--	A

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/19/14 13:40
Analyst: GP

Extraction Method: EPA 3546
Extraction Date: 12/18/14 11:27
Cleanup Method: EPA 3620B
Cleanup Date: 12/19/14

Parameter	Result	Qualifier	Units	RL	MDL
-----------	--------	-----------	-------	----	-----

Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG749882-1

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	69		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	75		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG749128-2 WG749128-3									
Dicamba	98		85		30-150	14		30	A
2,4-D	106		90		30-150	16		30	A
2,4,5-T	100		86		30-150	15		30	A
2,4,5-TP (Silvex)	106		94		30-150	12		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	85		75		30-150	A
DCAA	92		82		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits	Column
	%Recovery	Qual	%Recovery	Qual					
Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG749882-2 WG749882-3									
Delta-BHC	93		82		30-150	13		30	A
Lindane	87		80		30-150	8		30	A
Alpha-BHC	106		100		30-150	6		30	A
Beta-BHC	109		116		30-150	6		30	A
Heptachlor	93		91		30-150	2		30	A
Aldrin	96		93		30-150	3		30	A
Heptachlor epoxide	93		90		30-150	3		30	A
Endrin	109		106		30-150	3		30	A
Endrin aldehyde	64		69		30-150	8		30	A
Endrin ketone	84		83		30-150	1		30	A
Dieldrin	99		97		30-150	2		30	A
4,4'-DDE	93		91		30-150	2		30	A
4,4'-DDD	103		103		30-150	0		30	A
4,4'-DDT	88		86		30-150	2		30	A
Endosulfan I	92		90		30-150	2		30	A
Endosulfan II	87		85		30-150	2		30	A
Endosulfan sulfate	86		85		30-150	1		30	A
Methoxychlor	96		93		30-150	3		30	A
cis-Chlordane	93		89		30-150	4		30	A
trans-Chlordane	97		95		30-150	2		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG749882-2 WG749882-3								

<u>Surrogate</u>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	89		86		30-150	B
Decachlorobiphenyl	71		77		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		85		30-150	A
Decachlorobiphenyl	73		74		30-150	A

METALS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-01
 Client ID: LB-01_1-5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Percent Solids: 93%

Date Collected: 12/15/14 10:25
 Date Received: 12/15/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	22		mg/kg	0.40	--	1	12/17/14 15:39	12/17/14 21:05	EPA 3050B	1,6010C	JH
Barium, Total	43		mg/kg	0.40	--	1	12/17/14 15:39	12/17/14 21:05	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	--	1	12/17/14 15:39	12/17/14 21:05	EPA 3050B	1,6010C	JH
Chromium, Total	39		mg/kg	0.40	--	1	12/17/14 15:39	12/17/14 21:05	EPA 3050B	1,6010C	JH
Lead, Total	9.9		mg/kg	2.0	--	1	12/17/14 15:39	12/17/14 21:05	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.07	--	1	12/16/14 11:01	12/16/14 14:39	EPA 7471B	1,7471B	MC
Selenium, Total	ND		mg/kg	0.81	--	1	12/17/14 15:39	12/17/14 21:05	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	--	1	12/17/14 15:39	12/17/14 21:05	EPA 3050B	1,6010C	JH



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-02
 Client ID: LB-01_5-10
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Percent Solids: 87%

Date Collected: 12/15/14 10:40
 Date Received: 12/15/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	16		mg/kg	0.45	--	1	12/17/14 15:39	12/17/14 21:09	EPA 3050B	1,6010C	JH
Barium, Total	38		mg/kg	0.45	--	1	12/17/14 15:39	12/17/14 21:09	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.45	--	1	12/17/14 15:39	12/17/14 21:09	EPA 3050B	1,6010C	JH
Chromium, Total	30		mg/kg	0.45	--	1	12/17/14 15:39	12/17/14 21:09	EPA 3050B	1,6010C	JH
Lead, Total	7.7		mg/kg	2.2	--	1	12/17/14 15:39	12/17/14 21:09	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.07	--	1	12/16/14 11:01	12/16/14 14:41	EPA 7471B	1,7471B	MC
Selenium, Total	ND		mg/kg	0.90	--	1	12/17/14 15:39	12/17/14 21:09	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.45	--	1	12/17/14 15:39	12/17/14 21:09	EPA 3050B	1,6010C	JH



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG748835-1									
Mercury, Total	ND	mg/kg	0.08	--	1	12/16/14 11:01	12/16/14 13:34	1,7471B	MC

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG749538-1									
Arsenic, Total	ND	mg/kg	0.40	--	1	12/17/14 15:39	12/17/14 19:21	1,6010C	JH
Barium, Total	ND	mg/kg	0.40	--	1	12/17/14 15:39	12/17/14 19:21	1,6010C	JH
Cadmium, Total	ND	mg/kg	0.40	--	1	12/17/14 15:39	12/17/14 19:21	1,6010C	JH
Chromium, Total	ND	mg/kg	0.40	--	1	12/17/14 15:39	12/17/14 19:21	1,6010C	JH
Lead, Total	ND	mg/kg	2.0	--	1	12/17/14 15:39	12/17/14 19:21	1,6010C	JH
Selenium, Total	ND	mg/kg	0.80	--	1	12/17/14 15:39	12/17/14 19:21	1,6010C	JH
Silver, Total	ND	mg/kg	0.40	--	1	12/17/14 15:39	12/17/14 19:21	1,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG748835-2 SRM Lot Number: D083-540								
Mercury, Total	98		-		75-126	-		
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG749538-2 SRM Lot Number: D083-540								
Arsenic, Total	98		-		78-122	-		
Barium, Total	90		-		82-117	-		
Cadmium, Total	91		-		82-118	-		
Chromium, Total	89		-		79-121	-		
Lead, Total	89		-		81-119	-		
Selenium, Total	96		-		78-123	-		
Silver, Total	94		-		74-125	-		

Matrix Spike Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG748835-3 WG748835-4 QC Sample: L1430039-03 Client ID: MS Sample											
Mercury, Total	0.18	0.151	0.32	93		0.34	111		80-120	6	20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG749538-4 QC Sample: L1430148-21 Client ID: MS Sample											
Arsenic, Total	6.4	10.4	18	112		-	-		75-125	-	20
Barium, Total	42	173	200	92		-	-		75-125	-	20
Cadmium, Total	ND	4.4	4.0	91		-	-		75-125	-	20
Chromium, Total	11	17.3	27	93		-	-		75-125	-	20
Lead, Total	94	44	86	0	Q	-	-		75-125	-	20
Selenium, Total	ND	10.4	9.0	87		-	-		75-125	-	20
Silver, Total	ND	25.9	23	89		-	-		75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG749538-3 QC Sample: L1430148-21 Client ID: DUP Sample						
Arsenic, Total	6.4	6.7	mg/kg	5		20
Barium, Total	42	41	mg/kg	2		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	11	13	mg/kg	17		20
Lead, Total	94	64	mg/kg	38	Q	20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-01
Client ID: LB-01_1-5
Sample Location: KITTERY, MAINE
Matrix: Soil

Date Collected: 12/15/14 10:25
Date Received: 12/15/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.8		%	0.100	NA	1	-	12/16/14 04:55	30,2540G	RT



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

SAMPLE RESULTS

Lab ID: L1430143-02
Client ID: LB-01_5-10
Sample Location: KITTERY, MAINE
Matrix: Soil

Date Collected: 12/15/14 10:40
Date Received: 12/15/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.7		%	0.100	NA	1	-	12/16/14 04:55	30,2540G	RT



Lab Duplicate Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG748854-1 QC Sample: L1430036-01 Client ID: DUP Sample						
Solids, Total	82.5	84.4	%	2		20

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 12/15/2014 19:55

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1430143-01A	Vial MeOH preserved	A	N/A	2.2	Y	Absent	8260HLW(14)
L1430143-01B	Vial water preserved	A	N/A	2.2	Y	Absent	8260HLW(14)
L1430143-01C	Vial water preserved	A	N/A	2.2	Y	Absent	8260HLW(14)
L1430143-01D	Glass 250ml/8oz unpreserved	A	N/A	2.2	Y	Absent	AS-TI(180),BA-TI(180),TCLPRELOG(),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DROD(14),CD-TI(180)
L1430143-01E	Glass 250ml/8oz unpreserved	A	N/A	2.2	Y	Absent	AS-TI(180),BA-TI(180),TCLPRELOG(),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DROD(14),CD-TI(180)
L1430143-02A	Vial MeOH preserved	A	N/A	2.2	Y	Absent	8260HLW(14)
L1430143-02B	Vial water preserved	A	N/A	2.2	Y	Absent	8260HLW(14)
L1430143-02C	Vial water preserved	A	N/A	2.2	Y	Absent	8260HLW(14)
L1430143-02D	Glass 250ml/8oz unpreserved	A	N/A	2.2	Y	Absent	AS-TI(180),BA-TI(180),TCLPRELOG(),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DROD(14),CD-TI(180)
L1430143-02E	Glass 250ml/8oz unpreserved	A	N/A	2.2	Y	Absent	AS-TI(180),BA-TI(180),TCLPRELOG(),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DROD(14),CD-TI(180)

*Values in parentheses indicate holding time in days

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a "Total" result is defined as the summation of results for individual isomers or Aroclors. If a "Total" result is requested, the results of its individual components will also be reported. This is applicable to "Total" results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

Data Qualifiers

- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1430143
Report Date: 12/21/14

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 1Date Rec'd in Lab: 12/15/14ALPHA Job #: L1430143 Serial No: 211418-10

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Project Information

Project Name: PNSY
Project Location: Kittery, Maine
Project #: 41242-000
Project Manager: Erin Force
ALPHA Quote #:

Report Information - Data Deliverables

 ADEX EMAIL

Billing Information

 Same as Client info PO #:

Client Information

Client: Haley & Aldrich, Inc.
Address: 3 Bedford Farms Drive
Bedford, NH 05110
Phone: 603-391-3326
Email: eforce@haleyaldrich.com
mhatton@haleyaldrich.com
Additional Project Information:

Turn-Around Time

 Standard RUSH (only confirmed if pre-approved)
Date Due: 12/19/14

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program _____ Criteria

*Only test TCLP for individual RCRA 8 metals if exceedances of 20x Rule occur in RCRA 8 metal testing.

ANALYSIS	VOC: <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 824 <input type="checkbox"/> 524.2	SVOC: <input type="checkbox"/> ABN <input checked="" type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	METALS: <input type="checkbox"/> RCRA 5 <input checked="" type="checkbox"/> RCRA 8	EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	PCB <input checked="" type="checkbox"/> PEST	TPH: <input checked="" type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	Herbicides	TCLP for RCRA 8*	SAMPLE INFO
											<input type="checkbox"/> Filtration <input type="checkbox"/> Field <input type="checkbox"/> Lab to do <input type="checkbox"/> Preservation <input type="checkbox"/> Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	ANALYSIS											Sample Comments	
		Date	Time			VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	Herbicides	TCLP			
30143-01	LB-01-1-5	12/15/14	1025		AF	X	X	X		X	X	X	X					
02	LB-01-5-10	12/15/14	1040		AF	X	X	X		X	X	X	X					

LAND BORINGS
ENVIRONMENTAL COC

TOTAL # BOTTLES

- Container Type**
 P= Plastic
 A= Amber glass
 V= Vial
 G= Glass
 B= Bacteria cup
 C= Cube
 O= Other
 E= Encore
 B= BOD Bottle
- Preservative**
 A= None
 B= HCl
 C= HNO₃
 D= H₂SO₄
 E= NaOH
 F= MeOH
 G= NaHSO₄
 H= Na₂S₂O₈
 I= Ascorbic Acid
 J= NH₄Cl
 K= Zn Acetate
 O= Other

Container Type	
Preservative	

Relinquished By: <u>Alex Fleming</u> <u>M. Smith</u>	Date/Time: <u>12/15/14 16:20</u> <u>12/15/14 18:30</u> <u>12/15/14 18:00</u>	Received By: <u>M. Smith</u> <u>Will</u> <u>Mull</u>	Date/Time: <u>12/15/14 16:30</u> <u>12/15/14 16:30</u> <u>12/15/14 16:30</u>	All samples submitted are subject to Alpha's Terms and Conditions. See reverse side. FORM NO: 01-01 (rev. 12-Mar-2012)
--	---	---	---	---



ANALYTICAL REPORT

Lab Number:	L1429555
Client:	Haley & Aldrich 3 Bedford Farms Drive Bedford, NH 03110
ATTN:	Meghan Hatton
Phone:	(603) 625-5353
Project Name:	PNSY
Project Number:	41242-000
Report Date:	12/15/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1429555-01	LB-2_1-5	SOIL	KITTERY, MAINE	12/09/14 09:35	12/09/14
L1429555-02	LB-2_5-9	SOIL	KITTERY, MAINE	12/09/14 09:45	12/09/14

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 12/15/14

ORGANICS

VOLATILES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-01
 Client ID: LB-2_1-5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/11/14 12:57
 Analyst: BN
 Percent Solids: 88%

Date Collected: 12/09/14 09:35
 Date Received: 12/09/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	23	--	1
1,1-Dichloroethane	ND		ug/kg	3.4	--	1
Chloroform	ND		ug/kg	3.4	--	1
Carbon tetrachloride	ND		ug/kg	2.3	--	1
1,2-Dichloropropane	ND		ug/kg	7.9	--	1
Dibromochloromethane	ND		ug/kg	2.3	--	1
1,1,2-Trichloroethane	ND		ug/kg	3.4	--	1
Tetrachloroethene	ND		ug/kg	2.3	--	1
Chlorobenzene	ND		ug/kg	2.3	--	1
Trichlorofluoromethane	ND		ug/kg	11	--	1
1,2-Dichloroethane	ND		ug/kg	2.3	--	1
1,1,1-Trichloroethane	ND		ug/kg	2.3	--	1
Bromodichloromethane	ND		ug/kg	2.3	--	1
trans-1,3-Dichloropropene	ND		ug/kg	2.3	--	1
cis-1,3-Dichloropropene	ND		ug/kg	2.3	--	1
1,3-Dichloropropene, Total	ND		ug/kg	2.3	--	1
1,1-Dichloropropene	ND		ug/kg	11	--	1
Bromoform	ND		ug/kg	9.1	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.3	--	1
Benzene	ND		ug/kg	2.3	--	1
Toluene	ND		ug/kg	3.4	--	1
Ethylbenzene	ND		ug/kg	2.3	--	1
Chloromethane	ND		ug/kg	11	--	1
Bromomethane	ND		ug/kg	4.5	--	1
Vinyl chloride	ND		ug/kg	4.5	--	1
Chloroethane	ND		ug/kg	4.5	--	1
1,1-Dichloroethene	ND		ug/kg	2.3	--	1
trans-1,2-Dichloroethene	ND		ug/kg	3.4	--	1
Trichloroethene	ND		ug/kg	2.3	--	1
1,2-Dichlorobenzene	ND		ug/kg	11	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-01
Client ID: LB-2_1-5
Sample Location: KITTERY, MAINE

Date Collected: 12/09/14 09:35
Date Received: 12/09/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	11	--	1
1,4-Dichlorobenzene	ND		ug/kg	11	--	1
Methyl tert butyl ether	ND		ug/kg	4.5	--	1
p/m-Xylene	ND		ug/kg	4.5	--	1
o-Xylene	ND		ug/kg	4.5	--	1
Xylenes, Total	ND		ug/kg	4.5	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.3	--	1
1,2-Dichloroethene, Total	ND		ug/kg	2.3	--	1
Dibromomethane	ND		ug/kg	23	--	1
1,4-Dichlorobutane	ND		ug/kg	23	--	1
1,2,3-Trichloropropane	ND		ug/kg	23	--	1
Styrene	ND		ug/kg	4.5	--	1
Dichlorodifluoromethane	ND		ug/kg	23	--	1
Acetone	ND		ug/kg	82	--	1
Carbon disulfide	ND		ug/kg	23	--	1
2-Butanone	ND		ug/kg	23	--	1
Vinyl acetate	ND		ug/kg	23	--	1
4-Methyl-2-pentanone	ND		ug/kg	23	--	1
2-Hexanone	ND		ug/kg	23	--	1
Ethyl methacrylate	ND		ug/kg	23	--	1
Acrylonitrile	ND		ug/kg	9.1	--	1
Bromochloromethane	ND		ug/kg	11	--	1
Tetrahydrofuran	ND		ug/kg	45	--	1
2,2-Dichloropropane	ND		ug/kg	11	--	1
1,2-Dibromoethane	ND		ug/kg	9.1	--	1
1,3-Dichloropropane	ND		ug/kg	11	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.3	--	1
Bromobenzene	ND		ug/kg	11	--	1
n-Butylbenzene	ND		ug/kg	2.3	--	1
sec-Butylbenzene	ND		ug/kg	2.3	--	1
tert-Butylbenzene	ND		ug/kg	11	--	1
o-Chlorotoluene	ND		ug/kg	11	--	1
p-Chlorotoluene	ND		ug/kg	11	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	11	--	1
Hexachlorobutadiene	ND		ug/kg	11	--	1
Isopropylbenzene	ND		ug/kg	2.3	--	1
p-Isopropyltoluene	ND		ug/kg	2.3	--	1
Naphthalene	ND		ug/kg	11	--	1
n-Propylbenzene	ND		ug/kg	2.3	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-01
Client ID: LB-2_1-5
Sample Location: KITTERY, MAINE

Date Collected: 12/09/14 09:35
Date Received: 12/09/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	11	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	11	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	11	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	11	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	11	--	1
Ethyl ether	ND		ug/kg	11	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	116		70-130

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-02
 Client ID: LB-2_5-9
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/11/14 13:22
 Analyst: BN
 Percent Solids: 71%

Date Collected: 12/09/14 09:45
 Date Received: 12/09/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	20	--	1
1,1-Dichloroethane	ND		ug/kg	3.0	--	1
Chloroform	ND		ug/kg	3.0	--	1
Carbon tetrachloride	ND		ug/kg	2.0	--	1
1,2-Dichloropropane	ND		ug/kg	7.0	--	1
Dibromochloromethane	ND		ug/kg	2.0	--	1
1,1,2-Trichloroethane	ND		ug/kg	3.0	--	1
Tetrachloroethene	ND		ug/kg	2.0	--	1
Chlorobenzene	ND		ug/kg	2.0	--	1
Trichlorofluoromethane	ND		ug/kg	10	--	1
1,2-Dichloroethane	ND		ug/kg	2.0	--	1
1,1,1-Trichloroethane	ND		ug/kg	2.0	--	1
Bromodichloromethane	ND		ug/kg	2.0	--	1
trans-1,3-Dichloropropene	ND		ug/kg	2.0	--	1
cis-1,3-Dichloropropene	ND		ug/kg	2.0	--	1
1,3-Dichloropropene, Total	ND		ug/kg	2.0	--	1
1,1-Dichloropropene	ND		ug/kg	10	--	1
Bromoform	ND		ug/kg	8.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.0	--	1
Benzene	ND		ug/kg	2.0	--	1
Toluene	ND		ug/kg	3.0	--	1
Ethylbenzene	ND		ug/kg	2.0	--	1
Chloromethane	ND		ug/kg	10	--	1
Bromomethane	ND		ug/kg	4.0	--	1
Vinyl chloride	ND		ug/kg	4.0	--	1
Chloroethane	ND		ug/kg	4.0	--	1
1,1-Dichloroethene	ND		ug/kg	2.0	--	1
trans-1,2-Dichloroethene	ND		ug/kg	3.0	--	1
Trichloroethene	ND		ug/kg	2.0	--	1
1,2-Dichlorobenzene	ND		ug/kg	10	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-02
Client ID: LB-2_5-9
Sample Location: KITTERY, MAINE

Date Collected: 12/09/14 09:45
Date Received: 12/09/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	10	--	1
1,4-Dichlorobenzene	ND		ug/kg	10	--	1
Methyl tert butyl ether	ND		ug/kg	4.0	--	1
p/m-Xylene	ND		ug/kg	4.0	--	1
o-Xylene	ND		ug/kg	4.0	--	1
Xylenes, Total	ND		ug/kg	4.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.0	--	1
1,2-Dichloroethene, Total	ND		ug/kg	2.0	--	1
Dibromomethane	ND		ug/kg	20	--	1
1,4-Dichlorobutane	ND		ug/kg	20	--	1
1,2,3-Trichloropropane	ND		ug/kg	20	--	1
Styrene	ND		ug/kg	4.0	--	1
Dichlorodifluoromethane	ND		ug/kg	20	--	1
Acetone	ND		ug/kg	72	--	1
Carbon disulfide	ND		ug/kg	20	--	1
2-Butanone	ND		ug/kg	20	--	1
Vinyl acetate	ND		ug/kg	20	--	1
4-Methyl-2-pentanone	ND		ug/kg	20	--	1
2-Hexanone	ND		ug/kg	20	--	1
Ethyl methacrylate	ND		ug/kg	20	--	1
Acrylonitrile	ND		ug/kg	8.0	--	1
Bromochloromethane	ND		ug/kg	10	--	1
Tetrahydrofuran	ND		ug/kg	40	--	1
2,2-Dichloropropane	ND		ug/kg	10	--	1
1,2-Dibromoethane	ND		ug/kg	8.0	--	1
1,3-Dichloropropane	ND		ug/kg	10	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.0	--	1
Bromobenzene	ND		ug/kg	10	--	1
n-Butylbenzene	ND		ug/kg	2.0	--	1
sec-Butylbenzene	ND		ug/kg	2.0	--	1
tert-Butylbenzene	ND		ug/kg	10	--	1
o-Chlorotoluene	ND		ug/kg	10	--	1
p-Chlorotoluene	ND		ug/kg	10	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	10	--	1
Hexachlorobutadiene	ND		ug/kg	10	--	1
Isopropylbenzene	ND		ug/kg	2.0	--	1
p-Isopropyltoluene	ND		ug/kg	2.0	--	1
Naphthalene	ND		ug/kg	10	--	1
n-Propylbenzene	ND		ug/kg	2.0	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-02
Client ID: LB-2_5-9
Sample Location: KITTERY, MAINE

Date Collected: 12/09/14 09:45
Date Received: 12/09/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	10	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	10	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	10	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	10	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	10	--	1
Ethyl ether	ND		ug/kg	10	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	118		70-130

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 12/11/14 08:18
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG748019-3					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	5.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	5.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	5.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/11/14 08:18
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG748019-3					
Trichloroethene	ND		ug/kg	1.0	--
1,2-Dichlorobenzene	ND		ug/kg	5.0	--
1,3-Dichlorobenzene	ND		ug/kg	5.0	--
1,4-Dichlorobenzene	ND		ug/kg	5.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	10	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	10	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	10	--
2-Butanone	ND		ug/kg	10	--
Vinyl acetate	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrolein	ND		ug/kg	25	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	5.0	--
Tetrahydrofuran	ND		ug/kg	20	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	5.0	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/11/14 08:18
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG748019-3					
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	5.0	--
1,3,5-Trichlorobenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	5.0	--
p-Chlorotoluene	ND		ug/kg	5.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	--
Hexachlorobutadiene	ND		ug/kg	5.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	5.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Ethyl ether	ND		ug/kg	5.0	--
Methyl Acetate	ND		ug/kg	20	--
Ethyl Acetate	ND		ug/kg	20	--
Isopropyl Ether	ND		ug/kg	4.0	--
Cyclohexane	ND		ug/kg	20	--
Tert-Butyl Alcohol	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	100	--
Methyl cyclohexane	ND		ug/kg	4.0	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/11/14 08:18
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG748019-3					
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG748019-1 WG748019-2								
Methylene chloride	108		111		70-130	3		30
1,1-Dichloroethane	114		110		70-130	4		30
Chloroform	118		115		70-130	3		30
Carbon tetrachloride	131	Q	122		70-130	7		30
1,2-Dichloropropane	109		108		70-130	1		30
Dibromochloromethane	109		107		70-130	2		30
1,1,2-Trichloroethane	102		100		70-130	2		30
2-Chloroethylvinyl ether	90		88		70-130	2		30
Tetrachloroethene	106		100		70-130	6		30
Chlorobenzene	100		97		70-130	3		30
Trichlorofluoromethane	131		116		70-139	12		30
1,2-Dichloroethane	129		126		70-130	2		30
1,1,1-Trichloroethane	129		118		70-130	9		30
Bromodichloromethane	119		116		70-130	3		30
trans-1,3-Dichloropropene	105		103		70-130	2		30
cis-1,3-Dichloropropene	114		112		70-130	2		30
1,1-Dichloropropene	118		111		70-130	6		30
Bromoform	99		98		70-130	1		30
1,1,2,2-Tetrachloroethane	92		92		70-130	0		30
Benzene	109		106		70-130	3		30
Toluene	99		96		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG748019-1 WG748019-2								
Ethylbenzene	104		100		70-130	4		30
Chloromethane	102		98		52-130	4		30
Bromomethane	111		103		57-147	7		30
Vinyl chloride	110		102		67-130	8		30
Chloroethane	117		110		50-151	6		30
1,1-Dichloroethene	108		102		65-135	6		30
trans-1,2-Dichloroethene	108		103		70-130	5		30
Trichloroethene	120		113		70-130	6		30
1,2-Dichlorobenzene	95		95		70-130	0		30
1,3-Dichlorobenzene	99		96		70-130	3		30
1,4-Dichlorobenzene	96		96		70-130	0		30
Methyl tert butyl ether	108		109		66-130	1		30
p/m-Xylene	108		105		70-130	3		30
o-Xylene	106		103		70-130	3		30
cis-1,2-Dichloroethene	109		104		70-130	5		30
Dibromomethane	114		114		70-130	0		30
1,4-Dichlorobutane	99		99		70-130	0		30
1,2,3-Trichloropropane	99		97		68-130	2		30
Styrene	108		106		70-130	2		30
Dichlorodifluoromethane	110		99		30-146	11		30
Acetone	102		109		54-140	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG748019-1 WG748019-2								
Carbon disulfide	101		93		59-130	8		30
2-Butanone	102		97		70-130	5		30
Vinyl acetate	122		120		70-130	2		30
4-Methyl-2-pentanone	96		94		70-130	2		30
2-Hexanone	88		86		70-130	2		30
Ethyl methacrylate	85		83		70-130	2		30
Acrolein	92		93		70-130	1		30
Acrylonitrile	115		115		70-130	0		30
Bromochloromethane	114		115		70-130	1		30
Tetrahydrofuran	118		118		66-130	0		30
2,2-Dichloropropane	120		114		70-130	5		30
1,2-Dibromoethane	102		102		70-130	0		30
1,3-Dichloropropane	101		101		69-130	0		30
1,1,1,2-Tetrachloroethane	108		105		70-130	3		30
Bromobenzene	93		93		70-130	0		30
n-Butylbenzene	102		96		70-130	6		30
sec-Butylbenzene	99		94		70-130	5		30
tert-Butylbenzene	98		94		70-130	4		30
1,3,5-Trichlorobenzene	124		121		70-139	2		30
o-Chlorotoluene	99		95		70-130	4		30
p-Chlorotoluene	97		96		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG748019-1 WG748019-2								
1,2-Dibromo-3-chloropropane	81		78		68-130	4		30
Hexachlorobutadiene	99		91		67-130	8		30
Isopropylbenzene	108		103		70-130	5		30
p-Isopropyltoluene	100		96		70-130	4		30
Naphthalene	95		92		70-130	3		30
n-Propylbenzene	98		93		70-130	5		30
1,2,3-Trichlorobenzene	97		96		70-130	1		30
1,2,4-Trichlorobenzene	97		95		70-130	2		30
1,3,5-Trimethylbenzene	100		97		70-130	3		30
1,2,4-Trimethylbenzene	100		97		70-130	3		30
trans-1,4-Dichloro-2-butene	104		101		70-130	3		30
Ethyl ether	105		103		67-130	2		30
Methyl Acetate	111		118		65-130	6		30
Ethyl Acetate	104		109		70-130	5		30
Isopropyl Ether	112		112		66-130	0		30
Cyclohexane	120		111		70-130	8		30
Tert-Butyl Alcohol	100		98		70-130	2		30
Ethyl-Tert-Butyl-Ether	113		113		70-130	0		30
Tertiary-Amyl Methyl Ether	107		109		70-130	2		30
1,4-Dioxane	108		109		65-136	1		30
Methyl cyclohexane	115		106		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG748019-1 WG748019-2								
1,1,2-Trichloro-1,2,2-Trifluoroethane	121		108		70-130	11		30
1,4-Diethylbenzene	127		119		70-130	7		30
4-Ethyltoluene	123		118		70-130	4		30
1,2,4,5-Tetramethylbenzene	127		122		70-130	4		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	118		114		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	95		94		70-130
Dibromofluoromethane	111		111		70-130

SEMIVOLATILES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-01
 Client ID: LB-2_1-5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/11/14 22:26
 Analyst: AS
 Percent Solids: 88%

Date Collected: 12/09/14 09:35
 Date Received: 12/09/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/10/14 06:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	--	1
2-Chloronaphthalene	ND		ug/kg	180	--	1
Fluoranthene	ND		ug/kg	110	--	1
Naphthalene	ND		ug/kg	180	--	1
Benzo(a)anthracene	ND		ug/kg	110	--	1
Benzo(a)pyrene	ND		ug/kg	150	--	1
Benzo(b)fluoranthene	ND		ug/kg	110	--	1
Benzo(k)fluoranthene	ND		ug/kg	110	--	1
Chrysene	ND		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	150	--	1
Anthracene	ND		ug/kg	110	--	1
Benzo(ghi)perylene	ND		ug/kg	150	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	ND		ug/kg	110	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	--	1
Pyrene	ND		ug/kg	110	--	1
1-Methylnaphthalene	ND		ug/kg	180	--	1
2-Methylnaphthalene	ND		ug/kg	220	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	81		30-120
4-Terphenyl-d14	85		18-120

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-02
 Client ID: LB-2_5-9
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/11/14 22:52
 Analyst: AS
 Percent Solids: 71%

Date Collected: 12/09/14 09:45
 Date Received: 12/09/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/10/14 06:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	--	1
2-Chloronaphthalene	ND		ug/kg	230	--	1
Fluoranthene	ND		ug/kg	140	--	1
Naphthalene	ND		ug/kg	230	--	1
Benzo(a)anthracene	ND		ug/kg	140	--	1
Benzo(a)pyrene	ND		ug/kg	180	--	1
Benzo(b)fluoranthene	ND		ug/kg	140	--	1
Benzo(k)fluoranthene	ND		ug/kg	140	--	1
Chrysene	ND		ug/kg	140	--	1
Acenaphthylene	ND		ug/kg	180	--	1
Anthracene	ND		ug/kg	140	--	1
Benzo(ghi)perylene	ND		ug/kg	180	--	1
Fluorene	ND		ug/kg	230	--	1
Phenanthrene	ND		ug/kg	140	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	180	--	1
Pyrene	ND		ug/kg	140	--	1
1-Methylnaphthalene	ND		ug/kg	230	--	1
2-Methylnaphthalene	ND		ug/kg	280	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	75		30-120
4-Terphenyl-d14	78		18-120

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 12/11/14 19:01
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 12/10/14 06:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG747149-1					
Acenaphthene	ND		ug/kg	130	--
2-Chloronaphthalene	ND		ug/kg	160	--
Fluoranthene	ND		ug/kg	99	--
Naphthalene	ND		ug/kg	160	--
Benzo(a)anthracene	ND		ug/kg	99	--
Benzo(a)pyrene	ND		ug/kg	130	--
Benzo(b)fluoranthene	ND		ug/kg	99	--
Benzo(k)fluoranthene	ND		ug/kg	99	--
Chrysene	ND		ug/kg	99	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	99	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	99	--
Dibenzo(a,h)anthracene	ND		ug/kg	99	--
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	99	--
1-Methylnaphthalene	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	70		30-120
4-Terphenyl-d14	84		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG747149-2 WG747149-3								
Acenaphthene	72		80		31-137	11		50
2-Chloronaphthalene	73		83		40-140	13		50
Fluoranthene	84		91		40-140	8		50
Naphthalene	66		74		40-140	11		50
Benzo(a)anthracene	83		94		40-140	12		50
Benzo(a)pyrene	68		80		40-140	16		50
Benzo(b)fluoranthene	74		83		40-140	11		50
Benzo(k)fluoranthene	68		80		40-140	16		50
Chrysene	69		77		40-140	11		50
Acenaphthylene	77		90		40-140	16		50
Anthracene	79		89		40-140	12		50
Benzo(ghi)perylene	70		82		40-140	16		50
Fluorene	74		88		40-140	17		50
Phenanthrene	72		81		40-140	12		50
Dibenzo(a,h)anthracene	69		81		40-140	16		50
Indeno(1,2,3-cd)Pyrene	81		94		40-140	15		50
Pyrene	81		86		35-142	6		50
1-Methylnaphthalene	77		89			14		50
2-Methylnaphthalene	74		87		40-140	16		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG747149-2 WG747149-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
Nitrobenzene-d5	82		90		23-120
2-Fluorobiphenyl	76		88		30-120
4-Terphenyl-d14	85		99		18-120

PETROLEUM HYDROCARBONS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-01
 Client ID: LB-2_1-5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8015C(M)
 Analytical Date: 12/11/14 04:11
 Analyst: AR
 Percent Solids: 88%

Date Collected: 12/09/14 09:35
 Date Received: 12/09/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/10/14 03:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	39600		ug/kg	37100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	82		40-140

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-02
 Client ID: LB-2_5-9
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8015C(M)
 Analytical Date: 12/11/14 04:47
 Analyst: AR
 Percent Solids: 71%

Date Collected: 12/09/14 09:45
 Date Received: 12/09/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/10/14 03:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

TPH	ND		ug/kg	44700	--	1
-----	----	--	-------	-------	----	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 12/11/14 00:05
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 12/10/14 03:13

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-02 Batch: WG747131-1					
TPH	ND		ug/kg	32400	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	92		40-140

Lab Control Sample Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 Batch: WG747131-2								
TPH	88		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	89				40-140

Lab Duplicate Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG747131-3 QC Sample: L1429531-01 Client ID: DUP Sample						
TPH	84300	71700	ug/kg	16		40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	86		78		40-140



PCBS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-01
Client ID: LB-2_1-5
Sample Location: KITTERY, MAINE
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/11/14 23:38
Analyst: JW
Percent Solids: 88%

Date Collected: 12/09/14 09:35
Date Received: 12/09/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 12/10/14 00:05
Cleanup Method: EPA 3665A
Cleanup Date: 12/10/14
Cleanup Method: EPA 3660B
Cleanup Date: 12/10/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
PCB by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.3	--	1	A
Aroclor 1221	ND		ug/kg	37.3	--	1	A
Aroclor 1232	ND		ug/kg	37.3	--	1	A
Aroclor 1242	ND		ug/kg	37.3	--	1	A
Aroclor 1248	ND		ug/kg	37.3	--	1	A
Aroclor 1254	ND		ug/kg	37.3	--	1	A
Aroclor 1260	ND		ug/kg	37.3	--	1	A
Aroclor 1262	ND		ug/kg	37.3	--	1	A
Aroclor 1268	ND		ug/kg	37.3	--	1	A
PCBs, Total	ND		ug/kg	37.3	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-02
Client ID: LB-2_5-9
Sample Location: KITTERY, MAINE
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/11/14 23:52
Analyst: JW
Percent Solids: 71%

Date Collected: 12/09/14 09:45
Date Received: 12/09/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 12/10/14 00:05
Cleanup Method: EPA 3665A
Cleanup Date: 12/10/14
Cleanup Method: EPA 3660B
Cleanup Date: 12/10/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
PCB by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	45.7	--	1	A
Aroclor 1221	ND		ug/kg	45.7	--	1	A
Aroclor 1232	ND		ug/kg	45.7	--	1	A
Aroclor 1242	ND		ug/kg	45.7	--	1	A
Aroclor 1248	ND		ug/kg	45.7	--	1	A
Aroclor 1254	ND		ug/kg	45.7	--	1	A
Aroclor 1260	ND		ug/kg	45.7	--	1	A
Aroclor 1262	ND		ug/kg	45.7	--	1	A
Aroclor 1268	ND		ug/kg	45.7	--	1	A
PCBs, Total	ND		ug/kg	45.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 12/10/14 10:06
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 12/10/14 00:05
Cleanup Method: EPA 3665A
Cleanup Date: 12/10/14
Cleanup Method: EPA 3660B
Cleanup Date: 12/10/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
PCB by GC - Westborough Lab for sample(s): 01-02 Batch: WG747097-1						
Aroclor 1016	ND		ug/kg	31.9	--	A
Aroclor 1221	ND		ug/kg	31.9	--	A
Aroclor 1232	ND		ug/kg	31.9	--	A
Aroclor 1242	ND		ug/kg	31.9	--	A
Aroclor 1248	ND		ug/kg	31.9	--	A
Aroclor 1254	ND		ug/kg	31.9	--	A
Aroclor 1260	ND		ug/kg	31.9	--	A
Aroclor 1262	ND		ug/kg	31.9	--	A
Aroclor 1268	ND		ug/kg	31.9	--	A
PCBs, Total	ND		ug/kg	31.9	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	63		30-150	B



Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
PCB by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG747097-2 WG747097-3									
Aroclor 1016	73		77		40-140	5		50	A
Aroclor 1260	59		65		40-140	10		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		78		30-150	A
Decachlorobiphenyl	58		66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		88		30-150	B
Decachlorobiphenyl	62		69		30-150	B

PESTICIDES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-01
 Client ID: LB-2_1-5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 12/11/14 10:35
 Analyst: SS
 Percent Solids: 88%

Date Collected: 12/09/14 09:35
 Date Received: 12/09/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/10/14 22:45
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/11/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	8.72	--	1	A
Lindane	ND		ug/kg	3.63	--	1	A
Alpha-BHC	ND		ug/kg	3.63	--	1	A
Beta-BHC	ND		ug/kg	8.72	--	1	A
Heptachlor	ND		ug/kg	4.36	--	1	A
Aldrin	ND		ug/kg	8.72	--	1	A
Heptachlor epoxide	ND		ug/kg	16.4	--	1	A
Endrin	ND		ug/kg	3.63	--	1	A
Endrin aldehyde	ND		ug/kg	10.9	--	1	A
Endrin ketone	ND		ug/kg	8.72	--	1	A
Dieldrin	ND		ug/kg	5.45	--	1	A
4,4'-DDE	ND		ug/kg	8.72	--	1	A
4,4'-DDD	ND		ug/kg	8.72	--	1	A
4,4'-DDT	ND		ug/kg	16.4	--	1	A
Endosulfan I	ND		ug/kg	8.72	--	1	A
Endosulfan II	ND		ug/kg	8.72	--	1	A
Endosulfan sulfate	ND		ug/kg	3.63	--	1	A
Methoxychlor	ND		ug/kg	16.4	--	1	A
Toxaphene	ND		ug/kg	164	--	1	A
Chlordane	ND		ug/kg	70.8	--	1	A
cis-Chlordane	ND		ug/kg	10.9	--	1	A
trans-Chlordane	ND		ug/kg	10.9	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	108		30-150	B
Decachlorobiphenyl	109		30-150	B
2,4,5,6-Tetrachloro-m-xylene	118		30-150	A
Decachlorobiphenyl	101		30-150	A

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-01
 Client ID: LB-2_1-5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/12/14 13:54
 Analyst: SS
 Percent Solids: 88%
 Methylation Date: 12/11/14 18:30

Date Collected: 12/09/14 09:35
 Date Received: 12/09/14
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 12/10/14 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	--	1	A
2,4,5-T	ND		ug/kg	188	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	78		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-02
 Client ID: LB-2_5-9
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 12/11/14 10:49
 Analyst: SS
 Percent Solids: 71%

Date Collected: 12/09/14 09:45
 Date Received: 12/09/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/10/14 22:45
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/11/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	10.9	--	1	A
Lindane	ND		ug/kg	4.53	--	1	A
Alpha-BHC	ND		ug/kg	4.53	--	1	A
Beta-BHC	ND		ug/kg	10.9	--	1	A
Heptachlor	ND		ug/kg	5.43	--	1	A
Aldrin	ND		ug/kg	10.9	--	1	A
Heptachlor epoxide	ND		ug/kg	20.4	--	1	A
Endrin	ND		ug/kg	4.53	--	1	A
Endrin aldehyde	ND		ug/kg	13.6	--	1	A
Endrin ketone	ND		ug/kg	10.9	--	1	A
Dieldrin	ND		ug/kg	6.79	--	1	A
4,4'-DDE	ND		ug/kg	10.9	--	1	A
4,4'-DDD	ND		ug/kg	10.9	--	1	A
4,4'-DDT	ND		ug/kg	20.4	--	1	A
Endosulfan I	ND		ug/kg	10.9	--	1	A
Endosulfan II	ND		ug/kg	10.9	--	1	A
Endosulfan sulfate	ND		ug/kg	4.53	--	1	A
Methoxychlor	ND		ug/kg	20.4	--	1	A
Toxaphene	ND		ug/kg	204	--	1	A
Chlordane	ND		ug/kg	88.3	--	1	A
cis-Chlordane	ND		ug/kg	13.6	--	1	A
trans-Chlordane	ND		ug/kg	13.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	106		30-150	B
2,4,5,6-Tetrachloro-m-xylene	103		30-150	A
Decachlorobiphenyl	96		30-150	A

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-02
 Client ID: LB-2_5-9
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/12/14 14:13
 Analyst: SS
 Percent Solids: 71%
 Methylation Date: 12/11/14 18:30

Date Collected: 12/09/14 09:45
 Date Received: 12/09/14
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 12/10/14 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	231	--	1	A
2,4,5-T	ND		ug/kg	231	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	231	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	75		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/12/14 12:16
Analyst: SS

Extraction Method: EPA 8151A
Extraction Date: 12/10/14 17:49

Methylation Date: 12/11/14 18:30

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02 Batch: WG747421-1						
2,4-D	ND		ug/kg	164	--	A
2,4,5-T	ND		ug/kg	164	--	A
2,4,5-TP (Silvex)	ND		ug/kg	164	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	61		30-150	A
DCAA	61		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/11/14 09:43
Analyst: SS

Extraction Method: EPA 3546
Extraction Date: 12/10/14 22:45
Cleanup Method: EPA 3620B
Cleanup Date: 12/11/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG747490-1						
Delta-BHC	ND		ug/kg	7.67	--	A
Lindane	ND		ug/kg	3.20	--	A
Alpha-BHC	ND		ug/kg	3.20	--	A
Beta-BHC	ND		ug/kg	7.67	--	A
Heptachlor	ND		ug/kg	3.84	--	A
Aldrin	ND		ug/kg	7.67	--	A
Heptachlor epoxide	ND		ug/kg	14.4	--	A
Endrin	ND		ug/kg	3.20	--	A
Endrin aldehyde	ND		ug/kg	9.59	--	A
Endrin ketone	ND		ug/kg	7.67	--	A
Dieldrin	ND		ug/kg	4.80	--	A
4,4'-DDE	ND		ug/kg	7.67	--	A
4,4'-DDD	ND		ug/kg	7.67	--	A
4,4'-DDT	ND		ug/kg	14.4	--	A
Endosulfan I	ND		ug/kg	7.67	--	A
Endosulfan II	ND		ug/kg	7.67	--	A
Endosulfan sulfate	ND		ug/kg	3.20	--	A
Methoxychlor	ND		ug/kg	14.4	--	A
Toxaphene	ND		ug/kg	144	--	A
Chlordane	ND		ug/kg	62.3	--	A
cis-Chlordane	ND		ug/kg	9.59	--	A
trans-Chlordane	ND		ug/kg	9.59	--	A

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/11/14 09:43
Analyst: SS

Extraction Method: EPA 3546
Extraction Date: 12/10/14 22:45
Cleanup Method: EPA 3620B
Cleanup Date: 12/11/14

Parameter	Result	Qualifier	Units	RL	MDL
-----------	--------	-----------	-------	----	-----

Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG747490-1

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	94		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG747421-2 WG747421-3									
Dicamba	85		76		30-150	11		30	A
2,4-D	87		79		30-150	10		30	A
2,4,5-T	84		72		30-150	15		30	A
2,4,5-TP (Silvex)	87		79		30-150	10		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	81		68		30-150	A
DCAA	76		71		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG747490-2 WG747490-3									
Delta-BHC	73		77		30-150	5		30	A
Lindane	92		100		30-150	8		30	A
Alpha-BHC	83		89		30-150	7		30	A
Beta-BHC	97		105		30-150	8		30	A
Heptachlor	90		98		30-150	9		30	A
Aldrin	88		94		30-150	7		30	A
Heptachlor epoxide	88		94		30-150	7		30	A
Endrin	90		96		30-150	6		30	A
Endrin aldehyde	64		67		30-150	5		30	A
Endrin ketone	68		74		30-150	8		30	A
Dieldrin	90		95		30-150	5		30	A
4,4'-DDE	82		88		30-150	7		30	A
4,4'-DDD	86		93		30-150	8		30	A
4,4'-DDT	82		88		30-150	7		30	A
Endosulfan I	85		91		30-150	7		30	A
Endosulfan II	74		80		30-150	8		30	A
Endosulfan sulfate	72		78		30-150	8		30	A
Methoxychlor	73		79		30-150	8		30	A
cis-Chlordane	83		88		30-150	6		30	A
trans-Chlordane	88		94		30-150	7		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG747490-2 WG747490-3								

<u>Surrogate</u>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	102		105		30-150	B
Decachlorobiphenyl	108		107		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		104		30-150	A
Decachlorobiphenyl	96		103		30-150	A

METALS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-01
 Client ID: LB-2_1-5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Percent Solids: 88%

Date Collected: 12/09/14 09:35
 Date Received: 12/09/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	13		mg/kg	0.43	--	1	12/10/14 16:14	12/11/14 15:03	EPA 3050B	1,6010C	JH
Barium, Total	17		mg/kg	0.43	--	1	12/10/14 16:14	12/11/14 15:03	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.43	--	1	12/10/14 16:14	12/11/14 15:03	EPA 3050B	1,6010C	JH
Chromium, Total	19		mg/kg	0.43	--	1	12/10/14 16:14	12/11/14 15:03	EPA 3050B	1,6010C	JH
Lead, Total	6.4		mg/kg	2.2	--	1	12/10/14 16:14	12/11/14 15:03	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.07	--	1	12/10/14 09:13	12/10/14 12:51	EPA 7471B	1,7471B	MC
Selenium, Total	ND		mg/kg	0.86	--	1	12/10/14 16:14	12/11/14 15:03	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.43	--	1	12/10/14 16:14	12/11/14 15:03	EPA 3050B	1,6010C	JH



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-02
 Client ID: LB-2_5-9
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Percent Solids: 71%

Date Collected: 12/09/14 09:45
 Date Received: 12/09/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	17		mg/kg	0.56	--	1	12/10/14 16:14	12/11/14 15:07	EPA 3050B	1,6010C	JH
Barium, Total	28		mg/kg	0.56	--	1	12/10/14 16:14	12/11/14 15:07	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.56	--	1	12/10/14 16:14	12/11/14 15:07	EPA 3050B	1,6010C	JH
Chromium, Total	31		mg/kg	0.56	--	1	12/10/14 16:14	12/11/14 15:07	EPA 3050B	1,6010C	JH
Lead, Total	5.5		mg/kg	2.8	--	1	12/10/14 16:14	12/11/14 15:07	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.09	--	1	12/10/14 09:13	12/10/14 12:53	EPA 7471B	1,7471B	MC
Selenium, Total	ND		mg/kg	1.1	--	1	12/10/14 16:14	12/11/14 15:07	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.56	--	1	12/10/14 16:14	12/11/14 15:07	EPA 3050B	1,6010C	JH



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG747135-1									
Mercury, Total	ND	mg/kg	0.08	--	1	12/10/14 09:13	12/10/14 12:01	1,7471B	MC

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG747351-1									
Arsenic, Total	ND	mg/kg	0.40	--	1	12/10/14 16:14	12/11/14 09:32	1,6010C	JH
Barium, Total	ND	mg/kg	0.40	--	1	12/10/14 16:14	12/11/14 09:32	1,6010C	JH
Cadmium, Total	ND	mg/kg	0.40	--	1	12/10/14 16:14	12/11/14 09:32	1,6010C	JH
Chromium, Total	ND	mg/kg	0.40	--	1	12/10/14 16:14	12/11/14 09:32	1,6010C	JH
Lead, Total	ND	mg/kg	2.0	--	1	12/10/14 16:14	12/11/14 09:32	1,6010C	JH
Selenium, Total	ND	mg/kg	0.80	--	1	12/10/14 16:14	12/11/14 09:32	1,6010C	JH
Silver, Total	ND	mg/kg	0.40	--	1	12/10/14 16:14	12/11/14 09:32	1,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG747135-2 SRM Lot Number: D083-540								
Mercury, Total	93		-		75-126	-		
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG747351-2 SRM Lot Number: D083-540								
Arsenic, Total	98		-		78-122	-		
Barium, Total	96		-		82-117	-		
Cadmium, Total	94		-		82-118	-		
Chromium, Total	96		-		79-121	-		
Lead, Total	94		-		81-119	-		
Selenium, Total	102		-		78-123	-		
Silver, Total	94		-		74-125	-		

Matrix Spike Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG747135-3 WG747135-4 QC Sample: L1429476-34 Client ID: MS Sample												
Mercury, Total	15	0.14	10	0	Q	14	0	Q	80-120	33	Q	20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG747351-4 QC Sample: L1428590-05 Client ID: MS Sample												
Arsenic, Total	10	11.6	42	275	Q	-	-		75-125	-		20
Barium, Total	190	194	430	124		-	-		75-125	-		20
Cadmium, Total	1.4	4.94	7.0	113		-	-		75-125	-		20
Chromium, Total	13	19.4	52	201	Q	-	-		75-125	-		20
Lead, Total	260	49.4	320	121		-	-		75-125	-		20
Selenium, Total	ND	11.6	12	103		-	-		75-125	-		20
Silver, Total	ND	29.1	28	96		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG747351-3 QC Sample: L1428590-05 Client ID: DUP Sample						
Arsenic, Total	10	11	mg/kg	10		20
Barium, Total	190	250	mg/kg	27	Q	20
Cadmium, Total	1.4	1.8	mg/kg	25	Q	20
Chromium, Total	13	15	mg/kg	14		20
Lead, Total	260	310	mg/kg	18		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-01
Client ID: LB-2_1-5
Sample Location: KITTERY, MAINE
Matrix: Soil

Date Collected: 12/09/14 09:35
Date Received: 12/09/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	12/09/14 21:59	30,2540G	RT



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

SAMPLE RESULTS

Lab ID: L1429555-02
Client ID: LB-2_5-9
Sample Location: KITTERY, MAINE
Matrix: Soil

Date Collected: 12/09/14 09:45
Date Received: 12/09/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.4		%	0.100	NA	1	-	12/09/14 21:59	30,2540G	RT



Lab Duplicate Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG747077-1 QC Sample: L1429434-02 Client ID: DUP Sample						
Solids, Total	59.8	51.9	%	14		20

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 12/09/2014 19:51

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1429555-01A	Vial MeOH preserved	A	N/A	3.4	Y	Absent	8260HLW(14)
L1429555-01B	Vial water preserved	A	N/A	3.4	Y	Absent	8260HLW(14)
L1429555-01C	Vial water preserved	A	N/A	3.4	Y	Absent	8260HLW(14)
L1429555-01D	Glass 250ml/8oz unpreserved	A	N/A	3.4	Y	Absent	AS-TI(180),BA-TI(180),TCLPRELOG(),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DROD(14),CD-TI(180)
L1429555-01E	Glass 250ml/8oz unpreserved	A	N/A	3.4	Y	Absent	AS-TI(180),BA-TI(180),TCLPRELOG(),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DROD(14),CD-TI(180)
L1429555-02A	Vial MeOH preserved	A	N/A	3.4	Y	Absent	8260HLW(14)
L1429555-02B	Vial water preserved	A	N/A	3.4	Y	Absent	8260HLW(14)
L1429555-02C	Vial water preserved	A	N/A	3.4	Y	Absent	8260HLW(14)
L1429555-02D	Glass 250ml/8oz unpreserved	A	N/A	3.4	Y	Absent	AS-TI(180),BA-TI(180),TCLPRELOG(),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DROD(14),CD-TI(180)
L1429555-02E	Glass 250ml/8oz unpreserved	A	N/A	3.4	Y	Absent	AS-TI(180),BA-TI(180),TCLPRELOG(),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DROD(14),CD-TI(180)

*Values in parentheses indicate holding time in days



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
---------------------	-----------------------	---------------	-----------	-----------------------	-------------	-------------	--------------------

Container Comments

L1429555-01B

L1429555-02B

*Values in parentheses indicate holding time in days



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a "Total" result is defined as the summation of results for individual isomers or Aroclors. If a "Total" result is requested, the results of its individual components will also be reported. This is applicable to "Total" results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

Data Qualifiers

- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429555
Report Date: 12/15/14

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE _____ OF _____

Serial No: 12151417:09

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Date Rec'd in Lab: 12/9/14

ALPHA Job #: 41429555

Project Information

Project Name: **PNSY**

Project Location: **Kittery, Maine**

Project #: **A1242-000**

Project Manager: **Erin Force**

ALPHA Quote #:

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #:

Client Information

Client: **Haley & Aldrich, Inc.**

Address: **3 Bedford Farms Drive
Bedford, NH 05110**

Phone: **603-391-3326**

Email: **eforce@haleyaldrich.com
mhatton@haleyaldrich.com**

Additional Project Information:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: **12/15/14**

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods

Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)

Yes No GW1 Standards (Info Required for Metals & EPH with Targets)

Yes No NPDES RGP

Other State /Fed Program Criteria

***Only test TCLP for individual RCRA8 metals if exceedances of 20x Rule occur in RCRA8 metal testing.**

ANALYSIS		SAMPLE INFO	
VOC: <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	SVOC: <input type="checkbox"/> ABN <input checked="" type="checkbox"/> PAH	Filtration	<input type="checkbox"/> Field <input type="checkbox"/> Lab to do
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> MCP 15	METALS: <input type="checkbox"/> RCRA5 <input checked="" type="checkbox"/> RCRA8	Preservation	<input type="checkbox"/> Lab to do
EPH: <input type="checkbox"/> Ranges & Targets	YPH: <input type="checkbox"/> Ranges & Targets		
TPH: <input checked="" type="checkbox"/> PEST	Herbicides		
	TCLP for RCRA8*		

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	ANALYSIS										Sample Comments	
		Date	Time			VOC	SVOC	METALS	METALS	EPH	YPH	TPH	Herbicides	TCLP			
29555-01	LB-2-1-5	12/9/14	935	AF	AF	X	X	X				X	X	X	X		
02	LB-2-5-9	12/9/14	945	AF	AF	X	X	X				X	X	X	X		

LAND BORINGS ENVIRONMENTAL COC

- Container Type**
- 1= Plastic
 - 2= Amber glass
 - 3= Vial
 - 4= Glass
 - 5= Bacteria cup
 - 6= Cube
 - 7= Other
 - 8= Encore
 - 9= BOD Bottle
- Preservative**
- A= None
 - B= HCl
 - C= HNO₃
 - D= H₂SO₄
 - E= NaOH
 - F= MeOH
 - G= NaHSO₄
 - H= Na₂S₂O₃
 - I= Ascorbic Acid
 - J= NH₄Cl
 - K= Zn Acetate
 - O= Other

Container Type		Preservative	
Relinquished By:	Date/Time	Received By:	Date/Time
Alex Fleming M. Curto	12/9/14 16:30 12/9/14 17:35	M. Curto J. [Signature]	12/9/14 16:30 12/9/14 16:50 12/9/14 17:35
All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.			
FORM NO: 01-01 (rev. 12-Mar-2012)			



ANALYTICAL REPORT

Lab Number:	L1429344
Client:	Haley & Aldrich 3 Bedford Farms Drive Bedford, NH 03110
ATTN:	Meghan Hatton
Phone:	(603) 625-5353
Project Name:	PNSY
Project Number:	41242-000
Report Date:	12/11/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1429344-01	LB-03_0.5-4.5	SOIL	KITTERY, MAINE	12/04/14 09:55	12/05/14
L1429344-02	LB-03_4.5-8.0	SOIL	KITTERY, MAINE	12/04/14 10:15	12/05/14

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 12/11/14

ORGANICS

VOLATILES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-01
 Client ID: LB-03_0.5-4.5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/09/14 10:29
 Analyst: BN
 Percent Solids: 94%

Date Collected: 12/04/14 09:55
 Date Received: 12/05/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	20	--	1
1,1-Dichloroethane	ND		ug/kg	3.0	--	1
Chloroform	ND		ug/kg	3.0	--	1
Carbon tetrachloride	ND		ug/kg	2.0	--	1
1,2-Dichloropropane	ND		ug/kg	6.9	--	1
Dibromochloromethane	ND		ug/kg	2.0	--	1
1,1,2-Trichloroethane	ND		ug/kg	3.0	--	1
Tetrachloroethene	2.1		ug/kg	2.0	--	1
Chlorobenzene	ND		ug/kg	2.0	--	1
Trichlorofluoromethane	ND		ug/kg	9.8	--	1
1,2-Dichloroethane	ND		ug/kg	2.0	--	1
1,1,1-Trichloroethane	ND		ug/kg	2.0	--	1
Bromodichloromethane	ND		ug/kg	2.0	--	1
trans-1,3-Dichloropropene	ND		ug/kg	2.0	--	1
cis-1,3-Dichloropropene	ND		ug/kg	2.0	--	1
1,3-Dichloropropene, Total	ND		ug/kg	2.0	--	1
1,1-Dichloropropene	ND		ug/kg	9.8	--	1
Bromoform	ND		ug/kg	7.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.0	--	1
Benzene	ND		ug/kg	2.0	--	1
Toluene	ND		ug/kg	3.0	--	1
Ethylbenzene	ND		ug/kg	2.0	--	1
Chloromethane	ND		ug/kg	9.8	--	1
Bromomethane	ND		ug/kg	3.9	--	1
Vinyl chloride	ND		ug/kg	3.9	--	1
Chloroethane	ND		ug/kg	3.9	--	1
1,1-Dichloroethene	ND		ug/kg	2.0	--	1
trans-1,2-Dichloroethene	ND		ug/kg	3.0	--	1
Trichloroethene	ND		ug/kg	2.0	--	1
1,2-Dichlorobenzene	ND		ug/kg	9.8	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-01
Client ID: LB-03_0.5-4.5
Sample Location: KITTERY, MAINE

Date Collected: 12/04/14 09:55
Date Received: 12/05/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	9.8	--	1
1,4-Dichlorobenzene	ND		ug/kg	9.8	--	1
Methyl tert butyl ether	ND		ug/kg	3.9	--	1
p/m-Xylene	ND		ug/kg	3.9	--	1
o-Xylene	ND		ug/kg	3.9	--	1
Xylenes, Total	ND		ug/kg	3.9	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.0	--	1
1,2-Dichloroethene, Total	ND		ug/kg	2.0	--	1
Dibromomethane	ND		ug/kg	20	--	1
1,4-Dichlorobutane	ND		ug/kg	20	--	1
1,2,3-Trichloropropane	ND		ug/kg	20	--	1
Styrene	ND		ug/kg	3.9	--	1
Dichlorodifluoromethane	ND		ug/kg	20	--	1
Acetone	ND		ug/kg	71	--	1
Carbon disulfide	ND		ug/kg	20	--	1
2-Butanone	ND		ug/kg	20	--	1
Vinyl acetate	ND		ug/kg	20	--	1
4-Methyl-2-pentanone	ND		ug/kg	20	--	1
2-Hexanone	ND		ug/kg	20	--	1
Ethyl methacrylate	ND		ug/kg	20	--	1
Acrylonitrile	ND		ug/kg	7.9	--	1
Bromochloromethane	ND		ug/kg	9.8	--	1
Tetrahydrofuran	ND		ug/kg	39	--	1
2,2-Dichloropropane	ND		ug/kg	9.8	--	1
1,2-Dibromoethane	ND		ug/kg	7.9	--	1
1,3-Dichloropropane	ND		ug/kg	9.8	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.0	--	1
Bromobenzene	ND		ug/kg	9.8	--	1
n-Butylbenzene	ND		ug/kg	2.0	--	1
sec-Butylbenzene	ND		ug/kg	2.0	--	1
tert-Butylbenzene	ND		ug/kg	9.8	--	1
o-Chlorotoluene	ND		ug/kg	9.8	--	1
p-Chlorotoluene	ND		ug/kg	9.8	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.8	--	1
Hexachlorobutadiene	ND		ug/kg	9.8	--	1
Isopropylbenzene	ND		ug/kg	2.0	--	1
p-Isopropyltoluene	ND		ug/kg	2.0	--	1
Naphthalene	ND		ug/kg	9.8	--	1
n-Propylbenzene	ND		ug/kg	2.0	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-01
Client ID: LB-03_0.5-4.5
Sample Location: KITTERY, MAINE

Date Collected: 12/04/14 09:55
Date Received: 12/05/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	9.8	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	9.8	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	9.8	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	9.8	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.8	--	1
Ethyl ether	ND		ug/kg	9.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-02
 Client ID: LB-03_4.5-8.0
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/09/14 10:55
 Analyst: BN
 Percent Solids: 91%

Date Collected: 12/04/14 10:15
 Date Received: 12/05/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	23	--	1
1,1-Dichloroethane	ND		ug/kg	3.4	--	1
Chloroform	ND		ug/kg	3.4	--	1
Carbon tetrachloride	ND		ug/kg	2.3	--	1
1,2-Dichloropropane	ND		ug/kg	8.0	--	1
Dibromochloromethane	ND		ug/kg	2.3	--	1
1,1,2-Trichloroethane	ND		ug/kg	3.4	--	1
Tetrachloroethene	ND		ug/kg	2.3	--	1
Chlorobenzene	ND		ug/kg	2.3	--	1
Trichlorofluoromethane	ND		ug/kg	11	--	1
1,2-Dichloroethane	ND		ug/kg	2.3	--	1
1,1,1-Trichloroethane	ND		ug/kg	2.3	--	1
Bromodichloromethane	ND		ug/kg	2.3	--	1
trans-1,3-Dichloropropene	ND		ug/kg	2.3	--	1
cis-1,3-Dichloropropene	ND		ug/kg	2.3	--	1
1,3-Dichloropropene, Total	ND		ug/kg	2.3	--	1
1,1-Dichloropropene	ND		ug/kg	11	--	1
Bromoform	ND		ug/kg	9.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.3	--	1
Benzene	ND		ug/kg	2.3	--	1
Toluene	ND		ug/kg	3.4	--	1
Ethylbenzene	ND		ug/kg	2.3	--	1
Chloromethane	ND		ug/kg	11	--	1
Bromomethane	ND		ug/kg	4.6	--	1
Vinyl chloride	ND		ug/kg	4.6	--	1
Chloroethane	ND		ug/kg	4.6	--	1
1,1-Dichloroethene	ND		ug/kg	2.3	--	1
trans-1,2-Dichloroethene	ND		ug/kg	3.4	--	1
Trichloroethene	ND		ug/kg	2.3	--	1
1,2-Dichlorobenzene	ND		ug/kg	11	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-02
Client ID: LB-03_4.5-8.0
Sample Location: KITTERY, MAINE

Date Collected: 12/04/14 10:15
Date Received: 12/05/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	11	--	1
1,4-Dichlorobenzene	ND		ug/kg	11	--	1
Methyl tert butyl ether	ND		ug/kg	4.6	--	1
p/m-Xylene	ND		ug/kg	4.6	--	1
o-Xylene	ND		ug/kg	4.6	--	1
Xylenes, Total	ND		ug/kg	4.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.3	--	1
1,2-Dichloroethene, Total	ND		ug/kg	2.3	--	1
Dibromomethane	ND		ug/kg	23	--	1
1,4-Dichlorobutane	ND		ug/kg	23	--	1
1,2,3-Trichloropropane	ND		ug/kg	23	--	1
Styrene	ND		ug/kg	4.6	--	1
Dichlorodifluoromethane	ND		ug/kg	23	--	1
Acetone	ND		ug/kg	83	--	1
Carbon disulfide	ND		ug/kg	23	--	1
2-Butanone	ND		ug/kg	23	--	1
Vinyl acetate	ND		ug/kg	23	--	1
4-Methyl-2-pentanone	ND		ug/kg	23	--	1
2-Hexanone	ND		ug/kg	23	--	1
Ethyl methacrylate	ND		ug/kg	23	--	1
Acrylonitrile	ND		ug/kg	9.2	--	1
Bromochloromethane	ND		ug/kg	11	--	1
Tetrahydrofuran	ND		ug/kg	46	--	1
2,2-Dichloropropane	ND		ug/kg	11	--	1
1,2-Dibromoethane	ND		ug/kg	9.2	--	1
1,3-Dichloropropane	ND		ug/kg	11	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.3	--	1
Bromobenzene	ND		ug/kg	11	--	1
n-Butylbenzene	ND		ug/kg	2.3	--	1
sec-Butylbenzene	ND		ug/kg	2.3	--	1
tert-Butylbenzene	ND		ug/kg	11	--	1
o-Chlorotoluene	ND		ug/kg	11	--	1
p-Chlorotoluene	ND		ug/kg	11	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	11	--	1
Hexachlorobutadiene	ND		ug/kg	11	--	1
Isopropylbenzene	ND		ug/kg	2.3	--	1
p-Isopropyltoluene	ND		ug/kg	2.3	--	1
Naphthalene	ND		ug/kg	11	--	1
n-Propylbenzene	ND		ug/kg	2.3	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-02
Client ID: LB-03_4.5-8.0
Sample Location: KITTERY, MAINE

Date Collected: 12/04/14 10:15
Date Received: 12/05/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	11	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	11	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	11	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	11	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	11	--	1
Ethyl ether	ND		ug/kg	11	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/09/14 09:10
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG746908-3					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	5.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	5.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	5.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/09/14 09:10
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG746908-3					
Trichloroethene	ND		ug/kg	1.0	--
1,2-Dichlorobenzene	ND		ug/kg	5.0	--
1,3-Dichlorobenzene	ND		ug/kg	5.0	--
1,4-Dichlorobenzene	ND		ug/kg	5.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	10	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	10	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	10	--
2-Butanone	ND		ug/kg	10	--
Vinyl acetate	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrolein	ND		ug/kg	25	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	5.0	--
Tetrahydrofuran	ND		ug/kg	20	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	5.0	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/09/14 09:10
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG746908-3					
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	5.0	--
1,3,5-Trichlorobenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	5.0	--
p-Chlorotoluene	ND		ug/kg	5.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	--
Hexachlorobutadiene	ND		ug/kg	5.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	5.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Ethyl ether	ND		ug/kg	5.0	--
Methyl Acetate	ND		ug/kg	20	--
Ethyl Acetate	ND		ug/kg	20	--
Isopropyl Ether	ND		ug/kg	4.0	--
Cyclohexane	ND		ug/kg	20	--
Tert-Butyl Alcohol	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	100	--
Methyl cyclohexane	ND		ug/kg	4.0	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/09/14 09:10
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG746908-3					
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG746908-1 WG746908-2								
Methylene chloride	96		103		70-130	7		30
1,1-Dichloroethane	98		95		70-130	3		30
Chloroform	97		94		70-130	3		30
Carbon tetrachloride	98		93		70-130	5		30
1,2-Dichloropropane	99		97		70-130	2		30
Dibromochloromethane	100		98		70-130	2		30
1,1,2-Trichloroethane	101		99		70-130	2		30
2-Chloroethylvinyl ether	88		90		70-130	2		30
Tetrachloroethene	100		95		70-130	5		30
Chlorobenzene	98		95		70-130	3		30
Trichlorofluoromethane	110		101		70-139	9		30
1,2-Dichloroethane	99		98		70-130	1		30
1,1,1-Trichloroethane	97		94		70-130	3		30
Bromodichloromethane	99		97		70-130	2		30
trans-1,3-Dichloropropene	100		98		70-130	2		30
cis-1,3-Dichloropropene	98		96		70-130	2		30
1,1-Dichloropropene	96		93		70-130	3		30
Bromoform	96		96		70-130	0		30
1,1,2,2-Tetrachloroethane	96		95		70-130	1		30
Benzene	96		94		70-130	2		30
Toluene	96		93		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG746908-1 WG746908-2								
Ethylbenzene	98		94		70-130	4		30
Chloromethane	94		91		52-130	3		30
Bromomethane	115		108		57-147	6		30
Vinyl chloride	92		87		67-130	6		30
Chloroethane	130		111		50-151	16		30
1,1-Dichloroethene	95		89		65-135	7		30
trans-1,2-Dichloroethene	96		92		70-130	4		30
Trichloroethene	96		92		70-130	4		30
1,2-Dichlorobenzene	99		94		70-130	5		30
1,3-Dichlorobenzene	100		96		70-130	4		30
1,4-Dichlorobenzene	99		96		70-130	3		30
Methyl tert butyl ether	97		96		66-130	1		30
p/m-Xylene	101		98		70-130	3		30
o-Xylene	101		98		70-130	3		30
cis-1,2-Dichloroethene	99		96		70-130	3		30
Dibromomethane	100		101		70-130	1		30
1,4-Dichlorobutane	96		95		70-130	1		30
1,2,3-Trichloropropane	97		97		68-130	0		30
Styrene	104		100		70-130	4		30
Dichlorodifluoromethane	91		86		30-146	6		30
Acetone	95		94		54-140	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG746908-1 WG746908-2								
Carbon disulfide	94		89		59-130	5		30
2-Butanone	94		96		70-130	2		30
Vinyl acetate	95		94		70-130	1		30
4-Methyl-2-pentanone	75		76		70-130	1		30
2-Hexanone	86		88		70-130	2		30
Ethyl methacrylate	84		85		70-130	1		30
Acrolein	88		89		70-130	1		30
Acrylonitrile	92		92		70-130	0		30
Bromochloromethane	98		98		70-130	0		30
Tetrahydrofuran	93		94		66-130	1		30
2,2-Dichloropropane	100		96		70-130	4		30
1,2-Dibromoethane	100		100		70-130	0		30
1,3-Dichloropropane	100		99		69-130	1		30
1,1,1,2-Tetrachloroethane	99		96		70-130	3		30
Bromobenzene	98		95		70-130	3		30
n-Butylbenzene	100		95		70-130	5		30
sec-Butylbenzene	98		93		70-130	5		30
tert-Butylbenzene	99		94		70-130	5		30
1,3,5-Trichlorobenzene	103		98		70-139	5		30
o-Chlorotoluene	103		98		70-130	5		30
p-Chlorotoluene	100		97		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG746908-1 WG746908-2								
1,2-Dibromo-3-chloropropane	90		90		68-130	0		30
Hexachlorobutadiene	98		94		67-130	4		30
Isopropylbenzene	96		93		70-130	3		30
p-Isopropyltoluene	99		95		70-130	4		30
Naphthalene	95		93		70-130	2		30
n-Propylbenzene	97		94		70-130	3		30
1,2,3-Trichlorobenzene	100		96		70-130	4		30
1,2,4-Trichlorobenzene	101		97		70-130	4		30
1,3,5-Trimethylbenzene	101		96		70-130	5		30
1,2,4-Trimethylbenzene	100		97		70-130	3		30
trans-1,4-Dichloro-2-butene	102		100		70-130	2		30
Halothane	98		94		70-130	4		20
Ethyl ether	103		102		67-130	1		30
Methyl Acetate	94		94		65-130	0		30
Ethyl Acetate	94		98		70-130	4		30
Isopropyl Ether	98		96		66-130	2		30
Cyclohexane	93		88		70-130	6		30
Tert-Butyl Alcohol	88		93		70-130	6		30
Ethyl-Tert-Butyl-Ether	97		96		70-130	1		30
Tertiary-Amyl Methyl Ether	85		86		70-130	1		30
1,4-Dioxane	86		88		65-136	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG746908-1 WG746908-2								
Methyl cyclohexane	89		85		70-130	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	93		88		70-130	6		30
1,4-Diethylbenzene	98		94		70-130	4		30
4-Ethyltoluene	99		95		70-130	4		30
1,2,4,5-Tetramethylbenzene	98		94		70-130	4		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	95		96		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	103		102		70-130
Dibromofluoromethane	98		99		70-130

SEMIVOLATILES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-01
 Client ID: LB-03_0.5-4.5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/10/14 01:04
 Analyst: AS
 Percent Solids: 94%

Date Collected: 12/04/14 09:55
 Date Received: 12/05/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/07/14 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	--	1
2-Chloronaphthalene	ND		ug/kg	180	--	1
Fluoranthene	ND		ug/kg	100	--	1
Naphthalene	ND		ug/kg	180	--	1
Benzo(a)anthracene	ND		ug/kg	100	--	1
Benzo(a)pyrene	ND		ug/kg	140	--	1
Benzo(b)fluoranthene	ND		ug/kg	100	--	1
Benzo(k)fluoranthene	ND		ug/kg	100	--	1
Chrysene	ND		ug/kg	100	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	ND		ug/kg	100	--	1
Benzo(ghi)perylene	ND		ug/kg	140	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	ND		ug/kg	100	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	140	--	1
Pyrene	ND		ug/kg	100	--	1
1-Methylnaphthalene	ND		ug/kg	180	--	1
2-Methylnaphthalene	ND		ug/kg	210	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	95		30-120
4-Terphenyl-d14	97		18-120

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-02
 Client ID: LB-03_4.5-8.0
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/10/14 01:29
 Analyst: AS
 Percent Solids: 91%

Date Collected: 12/04/14 10:15
 Date Received: 12/05/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/07/14 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	--	1
2-Chloronaphthalene	ND		ug/kg	180	--	1
Fluoranthene	ND		ug/kg	110	--	1
Naphthalene	ND		ug/kg	180	--	1
Benzo(a)anthracene	ND		ug/kg	110	--	1
Benzo(a)pyrene	ND		ug/kg	150	--	1
Benzo(b)fluoranthene	ND		ug/kg	110	--	1
Benzo(k)fluoranthene	ND		ug/kg	110	--	1
Chrysene	ND		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	150	--	1
Anthracene	ND		ug/kg	110	--	1
Benzo(ghi)perylene	ND		ug/kg	150	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	ND		ug/kg	110	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	--	1
Pyrene	ND		ug/kg	110	--	1
1-Methylnaphthalene	ND		ug/kg	180	--	1
2-Methylnaphthalene	ND		ug/kg	220	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	82		30-120
4-Terphenyl-d14	86		18-120

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/09/14 19:59
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 12/07/14 02:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG746373-1					
Acenaphthene	ND		ug/kg	130	--
2-Chloronaphthalene	ND		ug/kg	160	--
Fluoranthene	ND		ug/kg	97	--
Naphthalene	ND		ug/kg	160	--
Benzo(a)anthracene	ND		ug/kg	97	--
Benzo(a)pyrene	ND		ug/kg	130	--
Benzo(b)fluoranthene	ND		ug/kg	97	--
Benzo(k)fluoranthene	ND		ug/kg	97	--
Chrysene	ND		ug/kg	97	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	97	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	97	--
Dibenzo(a,h)anthracene	ND		ug/kg	97	--
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	97	--
1-Methylnaphthalene	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	190	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	44		23-120
2-Fluorobiphenyl	50		30-120
4-Terphenyl-d14	109		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG746373-2 WG746373-3								
Acenaphthene	76		74		31-137	3		50
2-Chloronaphthalene	80		79		40-140	1		50
Fluoranthene	90		92		40-140	2		50
Naphthalene	72		69		40-140	4		50
Benzo(a)anthracene	86		87		40-140	1		50
Benzo(a)pyrene	86		89		40-140	3		50
Benzo(b)fluoranthene	86		91		40-140	6		50
Benzo(k)fluoranthene	83		84		40-140	1		50
Chrysene	84		86		40-140	2		50
Acenaphthylene	80		81		40-140	1		50
Anthracene	85		85		40-140	0		50
Benzo(ghi)perylene	87		87		40-140	0		50
Fluorene	80		81		40-140	1		50
Phenanthrene	86		84		40-140	2		50
Dibenzo(a,h)anthracene	88		90		40-140	2		50
Indeno(1,2,3-cd)Pyrene	88		89		40-140	1		50
Pyrene	88		91		35-142	3		50
1-Methylnaphthalene	83		81			2		50
2-Methylnaphthalene	82		82		40-140	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG746373-2 WG746373-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Nitrobenzene-d5	75		75		23-120
2-Fluorobiphenyl	84		82		30-120
4-Terphenyl-d14	93		95		18-120

PETROLEUM HYDROCARBONS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-01
 Client ID: LB-03_0.5-4.5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8015C(M)
 Analytical Date: 12/11/14 12:15
 Analyst: AR
 Percent Solids: 94%

Date Collected: 12/04/14 09:55
 Date Received: 12/05/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/06/14 10:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

TPH	98700		ug/kg	34800	--	1
-----	-------	--	-------	-------	----	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	93		40-140

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-02
 Client ID: LB-03_4.5-8.0
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8015C(M)
 Analytical Date: 12/11/14 12:50
 Analyst: AR
 Percent Solids: 91%

Date Collected: 12/04/14 10:15
 Date Received: 12/05/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/06/14 10:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

TPH	206000		ug/kg	34600	--	1
-----	--------	--	-------	-------	----	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8015C(M)
Analytical Date: 12/09/14 00:21
Analyst: JT

Extraction Method: EPA 3546
Extraction Date: 12/06/14 10:18

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-02 Batch: WG746261-1					
TPH	ND		ug/kg	32200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	73		40-140

Lab Control Sample Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 Batch: WG746261-2								
TPH	80		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	84				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG746261-3 QC Sample: L1429312-04 Client ID: DUP Sample						
TPH	262000	194000	ug/kg	30		40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	85		108		40-140



PCBS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-01
Client ID: LB-03_0.5-4.5
Sample Location: KITTERY, MAINE
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/07/14 00:13
Analyst: TQ
Percent Solids: 94%

Date Collected: 12/04/14 09:55
Date Received: 12/05/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 12/06/14 05:59
Cleanup Method: EPA 3665A
Cleanup Date: 12/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 12/06/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
PCB by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.2	--	1	A
Aroclor 1221	ND		ug/kg	35.2	--	1	A
Aroclor 1232	ND		ug/kg	35.2	--	1	A
Aroclor 1242	ND		ug/kg	35.2	--	1	A
Aroclor 1248	ND		ug/kg	35.2	--	1	A
Aroclor 1254	ND		ug/kg	35.2	--	1	A
Aroclor 1260	ND		ug/kg	35.2	--	1	A
Aroclor 1262	ND		ug/kg	35.2	--	1	A
Aroclor 1268	ND		ug/kg	35.2	--	1	A
PCBs, Total	ND		ug/kg	35.2	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	96		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-02
Client ID: LB-03_4.5-8.0
Sample Location: KITTERY, MAINE
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/07/14 00:27
Analyst: TQ
Percent Solids: 91%

Date Collected: 12/04/14 10:15
Date Received: 12/05/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 12/06/14 05:59
Cleanup Method: EPA 3665A
Cleanup Date: 12/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 12/06/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
PCB by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	--	1	A
Aroclor 1221	ND		ug/kg	35.7	--	1	A
Aroclor 1232	ND		ug/kg	35.7	--	1	A
Aroclor 1242	ND		ug/kg	35.7	--	1	A
Aroclor 1248	ND		ug/kg	35.7	--	1	A
Aroclor 1254	ND		ug/kg	35.7	--	1	A
Aroclor 1260	ND		ug/kg	35.7	--	1	B
Aroclor 1262	ND		ug/kg	35.7	--	1	A
Aroclor 1268	ND		ug/kg	35.7	--	1	B
PCBs, Total	ND		ug/kg	35.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8082A
 Analytical Date: 12/07/14 00:40
 Analyst: TQ

Extraction Method: EPA 3546
 Extraction Date: 12/06/14 05:59
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/06/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/06/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
PCB by GC - Westborough Lab for sample(s): 01-02 Batch: WG746238-1						
Aroclor 1016	ND		ug/kg	31.5	--	A
Aroclor 1221	ND		ug/kg	31.5	--	A
Aroclor 1232	ND		ug/kg	31.5	--	A
Aroclor 1242	ND		ug/kg	31.5	--	A
Aroclor 1248	ND		ug/kg	31.5	--	A
Aroclor 1254	ND		ug/kg	31.5	--	A
Aroclor 1260	ND		ug/kg	31.5	--	A
Aroclor 1262	ND		ug/kg	31.5	--	A
Aroclor 1268	ND		ug/kg	31.5	--	A
PCBs, Total	ND		ug/kg	31.5	--	A

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	56		30-150	B



Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
PCB by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG746238-2 WG746238-3									
Aroclor 1016	75		84		40-140	11		50	A
Aroclor 1260	41		41		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		84		30-150	A
Decachlorobiphenyl	51		47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		81		30-150	B
Decachlorobiphenyl	63		59		30-150	B

PESTICIDES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-01
 Client ID: LB-03_0.5-4.5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 12/09/14 12:42
 Analyst: SS
 Percent Solids: 94%

Date Collected: 12/04/14 09:55
 Date Received: 12/05/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/06/14 01:07
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/09/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	8.35	--	1	A
Lindane	ND		ug/kg	3.48	--	1	A
Alpha-BHC	ND		ug/kg	3.48	--	1	A
Beta-BHC	ND		ug/kg	8.35	--	1	A
Heptachlor	ND		ug/kg	4.18	--	1	A
Aldrin	ND		ug/kg	8.35	--	1	A
Heptachlor epoxide	ND		ug/kg	15.6	--	1	A
Endrin	ND		ug/kg	3.48	--	1	A
Endrin aldehyde	ND		ug/kg	10.4	--	1	A
Endrin ketone	ND		ug/kg	8.35	--	1	A
Dieldrin	ND		ug/kg	5.22	--	1	A
4,4'-DDE	ND		ug/kg	8.35	--	1	A
4,4'-DDD	ND		ug/kg	8.35	--	1	A
4,4'-DDT	ND		ug/kg	15.6	--	1	A
Endosulfan I	ND		ug/kg	8.35	--	1	A
Endosulfan II	ND		ug/kg	8.35	--	1	A
Endosulfan sulfate	ND		ug/kg	3.48	--	1	A
Methoxychlor	ND		ug/kg	15.6	--	1	A
Toxaphene	ND		ug/kg	156	--	1	A
Chlordane	ND		ug/kg	67.8	--	1	A
cis-Chlordane	ND		ug/kg	10.4	--	1	A
trans-Chlordane	ND		ug/kg	10.4	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	59		30-150	A

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-01
 Client ID: LB-03_0.5-4.5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/08/14 14:37
 Analyst: SS
 Percent Solids: 94%
 Methylation Date: 12/07/14 03:11

Date Collected: 12/04/14 09:55
 Date Received: 12/05/14
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 12/06/14 03:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	175	--	1	A
2,4,5-T	ND		ug/kg	175	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	175	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	64		30-150	A
DCAA	59		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-02
 Client ID: LB-03_4.5-8.0
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 12/09/14 12:59
 Analyst: SS
 Percent Solids: 91%

Date Collected: 12/04/14 10:15
 Date Received: 12/05/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/06/14 01:07
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/09/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	8.71	--	1	A
Lindane	ND		ug/kg	3.63	--	1	A
Alpha-BHC	ND		ug/kg	3.63	--	1	A
Beta-BHC	ND		ug/kg	8.71	--	1	A
Heptachlor	ND		ug/kg	4.36	--	1	A
Aldrin	ND		ug/kg	8.71	--	1	A
Heptachlor epoxide	ND		ug/kg	16.3	--	1	A
Endrin	ND		ug/kg	3.63	--	1	A
Endrin aldehyde	ND		ug/kg	10.9	--	1	A
Endrin ketone	ND		ug/kg	8.71	--	1	A
Dieldrin	ND		ug/kg	5.45	--	1	A
4,4'-DDE	ND		ug/kg	8.71	--	1	A
4,4'-DDD	ND		ug/kg	8.71	--	1	A
4,4'-DDT	ND		ug/kg	16.3	--	1	A
Endosulfan I	ND		ug/kg	8.71	--	1	A
Endosulfan II	ND		ug/kg	8.71	--	1	A
Endosulfan sulfate	ND		ug/kg	3.63	--	1	A
Methoxychlor	ND		ug/kg	16.3	--	1	A
Toxaphene	ND		ug/kg	163	--	1	A
Chlordane	ND		ug/kg	70.8	--	1	A
cis-Chlordane	ND		ug/kg	10.9	--	1	A
trans-Chlordane	ND		ug/kg	10.9	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	93		30-150	B
2,4,5,6-Tetrachloro-m-xylene	101		30-150	A
Decachlorobiphenyl	84		30-150	A

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-02
 Client ID: LB-03_4.5-8.0
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/08/14 14:56
 Analyst: SS
 Percent Solids: 91%
 Methylation Date: 12/07/14 03:11

Date Collected: 12/04/14 10:15
 Date Received: 12/05/14
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 12/06/14 03:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	--	1	A
2,4,5-T	ND		ug/kg	180	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	67		30-150	A
DCAA	74		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/08/14 19:20
Analyst: SS

Extraction Method: EPA 3546
Extraction Date: 12/06/14 01:07
Cleanup Method: EPA 3620B
Cleanup Date: 12/08/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG746187-1						
Delta-BHC	ND		ug/kg	7.56	--	A
Lindane	ND		ug/kg	3.15	--	A
Alpha-BHC	ND		ug/kg	3.15	--	A
Beta-BHC	ND		ug/kg	7.56	--	A
Heptachlor	ND		ug/kg	3.78	--	A
Aldrin	ND		ug/kg	7.56	--	A
Heptachlor epoxide	ND		ug/kg	14.2	--	A
Endrin	ND		ug/kg	3.15	--	A
Endrin aldehyde	ND		ug/kg	9.45	--	A
Endrin ketone	ND		ug/kg	7.56	--	A
Dieldrin	ND		ug/kg	4.72	--	A
4,4'-DDE	ND		ug/kg	7.56	--	A
4,4'-DDD	ND		ug/kg	7.56	--	A
4,4'-DDT	ND		ug/kg	14.2	--	A
Endosulfan I	ND		ug/kg	7.56	--	A
Endosulfan II	ND		ug/kg	7.56	--	A
Endosulfan sulfate	ND		ug/kg	3.15	--	A
Methoxychlor	ND		ug/kg	14.2	--	A
Toxaphene	ND		ug/kg	142	--	A
Chlordane	ND		ug/kg	61.4	--	A
cis-Chlordane	ND		ug/kg	9.45	--	A
trans-Chlordane	ND		ug/kg	9.45	--	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/08/14 19:20
Analyst: SS

Extraction Method: EPA 3546
Extraction Date: 12/06/14 01:07
Cleanup Method: EPA 3620B
Cleanup Date: 12/08/14

Parameter	Result	Qualifier	Units	RL	MDL
-----------	--------	-----------	-------	----	-----

Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG746187-1

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	107		30-150	B
Decachlorobiphenyl	108		30-150	B
2,4,5,6-Tetrachloro-m-xylene	106		30-150	A
Decachlorobiphenyl	77		30-150	A

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/08/14 11:03
Analyst: SS

Extraction Method: EPA 8151A
Extraction Date: 12/06/14 03:04

Methylation Date: 12/07/14 03:11

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02 Batch: WG746215-1						
2,4-D	ND		ug/kg	162	--	A
2,4,5-T	ND		ug/kg	162	--	A
2,4,5-TP (Silvex)	ND		ug/kg	162	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	62		30-150	A
DCAA	66		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG746187-2 WG746187-3									
Delta-BHC	76		75		30-150	1		30	A
Lindane	100		98		30-150	2		30	A
Alpha-BHC	88		85		30-150	3		30	A
Beta-BHC	105		106		30-150	1		30	A
Heptachlor	97		94		30-150	3		30	A
Aldrin	94		93		30-150	1		30	A
Heptachlor epoxide	94		92		30-150	2		30	A
Endrin	97		97		30-150	0		30	A
Endrin aldehyde	66		67		30-150	2		30	A
Endrin ketone	75		75		30-150	0		30	A
Dieldrin	97		96		30-150	1		30	A
4,4'-DDE	90		88		30-150	2		30	A
4,4'-DDD	93		94		30-150	1		30	A
4,4'-DDT	92		93		30-150	1		30	A
Endosulfan I	93		94		30-150	1		30	A
Endosulfan II	81		80		30-150	1		30	A
Endosulfan sulfate	77		76		30-150	1		30	A
Methoxychlor	80		81		30-150	1		30	A
cis-Chlordane	89		87		30-150	2		30	A
trans-Chlordane	93		92		30-150	1		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG746187-2 WG746187-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	93		97		30-150	B
Decachlorobiphenyl	96		105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		88		30-150	A
Decachlorobiphenyl	94		92		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG746215-2 WG746215-3									
Dicamba	84		75		30-150	11		30	A
2,4-D	84		79		30-150	6		30	A
2,4,5-T	84		75		30-150	11		30	A
2,4,5-TP (Silvex)	85		77		30-150	10		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	72		63		30-150	A
DCAA	76		70		30-150	B

METALS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-01
 Client ID: LB-03_0.5-4.5
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Percent Solids: 94%

Date Collected: 12/04/14 09:55
 Date Received: 12/05/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	16		mg/kg	0.42	--	1	12/08/14 15:08	12/08/14 20:52	EPA 3050B	1,6010C	TT
Barium, Total	41		mg/kg	0.42	--	1	12/08/14 15:08	12/08/14 20:52	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.42	--	1	12/08/14 15:08	12/08/14 20:52	EPA 3050B	1,6010C	TT
Chromium, Total	32		mg/kg	0.42	--	1	12/08/14 15:08	12/08/14 20:52	EPA 3050B	1,6010C	TT
Lead, Total	6.5		mg/kg	2.1	--	1	12/08/14 15:08	12/08/14 20:52	EPA 3050B	1,6010C	TT
Mercury, Total	ND		mg/kg	0.07	--	1	12/06/14 15:10	12/08/14 12:19	EPA 7471B	1,7471B	MC
Selenium, Total	ND		mg/kg	0.83	--	1	12/08/14 15:08	12/08/14 20:52	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.42	--	1	12/08/14 15:08	12/08/14 20:52	EPA 3050B	1,6010C	TT



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-02
 Client ID: LB-03_4.5-8.0
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Percent Solids: 91%

Date Collected: 12/04/14 10:15
 Date Received: 12/05/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	10		mg/kg	0.42	--	1	12/08/14 15:08	12/08/14 20:56	EPA 3050B	1,6010C	TT
Barium, Total	20		mg/kg	0.42	--	1	12/08/14 15:08	12/08/14 20:56	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.42	--	1	12/08/14 15:08	12/08/14 20:56	EPA 3050B	1,6010C	TT
Chromium, Total	20		mg/kg	0.42	--	1	12/08/14 15:08	12/08/14 20:56	EPA 3050B	1,6010C	TT
Lead, Total	11		mg/kg	2.1	--	1	12/08/14 15:08	12/08/14 20:56	EPA 3050B	1,6010C	TT
Mercury, Total	ND		mg/kg	0.08	--	1	12/06/14 15:10	12/08/14 12:20	EPA 7471B	1,7471B	MC
Selenium, Total	ND		mg/kg	0.84	--	1	12/08/14 15:08	12/08/14 20:56	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.42	--	1	12/08/14 15:08	12/08/14 20:56	EPA 3050B	1,6010C	TT



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG746221-1									
Mercury, Total	ND	mg/kg	0.08	--	1	12/06/14 15:10	12/08/14 11:28	1,7471B	MC

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG746588-1									
Arsenic, Total	ND	mg/kg	0.40	--	1	12/08/14 15:08	12/08/14 18:46	1,6010C	TT
Barium, Total	ND	mg/kg	0.40	--	1	12/08/14 15:08	12/08/14 18:46	1,6010C	TT
Cadmium, Total	ND	mg/kg	0.40	--	1	12/08/14 15:08	12/08/14 18:46	1,6010C	TT
Chromium, Total	ND	mg/kg	0.40	--	1	12/08/14 15:08	12/08/14 18:46	1,6010C	TT
Lead, Total	ND	mg/kg	2.0	--	1	12/08/14 15:08	12/08/14 18:46	1,6010C	TT
Selenium, Total	ND	mg/kg	0.80	--	1	12/08/14 15:08	12/08/14 18:46	1,6010C	TT
Silver, Total	ND	mg/kg	0.40	--	1	12/08/14 15:08	12/08/14 18:46	1,6010C	TT

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG746221-2 SRM Lot Number: D083-540								
Mercury, Total	116		-		75-126	-		
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG746588-2 SRM Lot Number: D083-540								
Arsenic, Total	98		-		78-122	-		
Barium, Total	90		-		82-117	-		
Cadmium, Total	91		-		82-118	-		
Chromium, Total	94		-		79-121	-		
Lead, Total	88		-		81-119	-		
Selenium, Total	90		-		78-123	-		
Silver, Total	96		-		74-125	-		

Matrix Spike Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG746221-4 QC Sample: L1429082-01 Client ID: MS Sample												
Mercury, Total	ND	0.145	0.29	200	Q	-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG746588-4 QC Sample: L1429273-01 Client ID: MS Sample												
Arsenic, Total	3.5	10.5	14	100		-	-		75-125	-		20
Barium, Total	64	176	230	94		-	-		75-125	-		20
Cadmium, Total	ND	4.48	4.0	89		-	-		75-125	-		20
Chromium, Total	39	17.6	57	102		-	-		75-125	-		20
Lead, Total	4.2	44.8	44	98		-	-		75-125	-		20
Selenium, Total	ND	10.5	9.5	90		-	-		75-125	-		20
Silver, Total	ND	26.4	26	98		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG746221-3 QC Sample: L1429082-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG746588-3 QC Sample: L1429273-01 Client ID: DUP Sample						
Arsenic, Total	3.5	3.6	mg/kg	3		20
Barium, Total	64	50	mg/kg	25	Q	20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	39	32	mg/kg	20		20
Lead, Total	4.2	4.2	mg/kg	0		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-01
Client ID: LB-03_0.5-4.5
Sample Location: KITTERY, MAINE
Matrix: Soil

Date Collected: 12/04/14 09:55
Date Received: 12/05/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.1		%	0.100	NA	1	-	12/06/14 03:44	30,2540G	RT



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

SAMPLE RESULTS

Lab ID: L1429344-02
Client ID: LB-03_4.5-8.0
Sample Location: KITTERY, MAINE
Matrix: Soil

Date Collected: 12/04/14 10:15
Date Received: 12/05/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	12/06/14 03:44	30,2540G	RT



Lab Duplicate Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG746222-1 QC Sample: L1429335-01 Client ID: DUP Sample						
Solids, Total	88.8	88.9	%	0		20

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 12/05/2014 20:40

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1429344-01A	Vial MeOH preserved	A	N/A	2.5	Y	Absent	8260HLW(14)
L1429344-01B	Vial water preserved	A	N/A	2.5	Y	Absent	8260HLW(14)
L1429344-01C	Vial water preserved	A	N/A	2.5	Y	Absent	8260HLW(14)
L1429344-01D	Glass 250ml/8oz unpreserved	A	N/A	2.5	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DRO-D(14),CD-TI(180)
L1429344-01E	Glass 250ml/8oz unpreserved	A	N/A	2.5	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DRO-D(14),CD-TI(180)
L1429344-02A	Vial MeOH preserved	A	N/A	2.5	Y	Absent	8260HLW(14)
L1429344-02B	Vial water preserved	A	N/A	2.5	Y	Absent	8260HLW(14)
L1429344-02C	Vial water preserved	A	N/A	2.5	Y	Absent	8260HLW(14)
L1429344-02D	Glass 250ml/8oz unpreserved	A	N/A	2.5	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DRO-D(14),CD-TI(180)
L1429344-02E	Glass 250ml/8oz unpreserved	A	N/A	2.5	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DRO-D(14),CD-TI(180)

*Values in parentheses indicate holding time in days

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a "Total" result is defined as the summation of results for individual isomers or Aroclors. If a "Total" result is requested, the results of its individual components will also be reported. This is applicable to "Total" results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

Data Qualifiers

- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1429344
Report Date: 12/11/14

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 1Date Rec'd in Lab: 12/5/14Serial No: 12111417:38
ALPHA Job #: L14293448 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220
320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300**Project Information**
Project Name: PNSU
Project Location: Kittery, Maine
Project #: 41242-000
Project Manager: Erin Force
ALPHA Quote #:**Report Information - Data Deliverables**
 ADEX EMAIL**Billing Information**
 Same as Client info PO #:**Client Information**
Client: Haley & Aldrich, Inc.
Address: 3 Bedford Farms Drive
Bedford, NH 05110
Phone: 603-391-3326
Email: e-force@haleyaldrich.com
mhatton@haleyaldrich.com
Additional Project Information:**Turn-Around Time**
 Standard RUSH (only confirm if pre-approved)
Date Due: 12/11/14**Regulatory Requirements & Project Information Requirements**
 Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program _____ Criteria _____

ANALYSIS	SAMPLE INFO	TOTAL # BOTTLES
VOC: <input checked="" type="checkbox"/> 2260 <input type="checkbox"/> 624 <input type="checkbox"/> 9242	Filtration <input type="checkbox"/> Field <input type="checkbox"/> Lab to do	
SVOC: <input type="checkbox"/> ABN <input checked="" type="checkbox"/> PAH	Preservation <input type="checkbox"/> Lab to do	
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	Sample Comments	
METALS: <input type="checkbox"/> RCRA5 <input checked="" type="checkbox"/> RCRA8		
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only		
VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only		
<input checked="" type="checkbox"/> PCB <input checked="" type="checkbox"/> PEST		
<input checked="" type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint		
Herbicides		
TCLP for RCRA8*		

*Only test TCLP for individual RCRA8 metals if exceedances of 20x Rule occur in RCRA8 metal testing.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	ANALYSIS										Sample Comments	TOTAL # BOTTLES	
		Date	Time			VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	Herbicides	TCLP			
29344-61	LB-03_0.5-4.5	12/4/14	955	So	AF	X	X	X					X	X	X	X		
-2	LB-03_4.5-8.0	12/4/14	1015	So	AF	X	X	X					X	X	X	X		

LAND BORINGS
ENVIRONMENTAL COC

Low VOCs in freezer
Frozen on 12/1/14 at 1633

- Container Type**
 P= Plastic
 A= Amber glass
 V= Vial
 G= Glass
 B= Bacteria cup
 C= Cube
 O= Other
 E= Encore
 B= BOD Bottle
- Preservative**
 A= None
 B= HCl
 C= HNO₃
 D= H₂SO₄
 E= NaOH
 F= MeOH
 G= NaHSO₄
 H= Na₂S₂O₃
 I= Ascorbic Acid
 J= NH₄Cl
 K= Zn Acetate
 O= Other

Container Type	
Preservative	

Relinquished By: <u>Alex Fleming</u> <u>M. Rysb</u>	Date/Time <u>12/14/1633</u>	Received By: <u>M. Carter</u> <u>AL</u>	Date/Time <u>12/5/14 1630</u> <u>12/5/14 1645</u> <u>12/5/14 1825</u>	All samples submitted are subject to Alpha's Terms and Conditions. See reverse side. FORM NO: 01-01 (rev. 12-Mar-2012)
---	--------------------------------	---	--	---



ANALYTICAL REPORT

Lab Number:	L1428672
Client:	Haley & Aldrich 3 Bedford Farms Drive Bedford, NH 03110
ATTN:	Meghan Hatton
Phone:	(603) 625-5353
Project Name:	PNSY
Project Number:	41242-000
Report Date:	12/04/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1428672-01	LB-04_1.0-4.0	SOIL	KITTERY, MAINE	11/25/14 10:50	11/26/14

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Case Narrative (continued)

Semivolatile Organics

L1428672-01 (LB-04_1.0-4.0) has elevated detection limits due to the dilution required by the sample matrix.

Pesticides

The WG744395-1 Method Blank, associated with L1428672-01 (LB-04_1.0-4.0), has concentrations above the reporting limits for chlordane, alpha-chlordane, and gamma -chlordane. Since the sample was non-detect for these target analytes, no further actions were taken. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 12/04/14

ORGANICS

VOLATILES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

SAMPLE RESULTS

Lab ID: L1428672-01
 Client ID: LB-04_1.0-4.0
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/01/14 12:51
 Analyst: BN
 Percent Solids: 94%

Date Collected: 11/25/14 10:50
 Date Received: 11/26/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	--	1
1,1-Dichloroethane	ND		ug/kg	1.6	--	1
Chloroform	ND		ug/kg	1.6	--	1
Carbon tetrachloride	ND		ug/kg	1.1	--	1
1,2-Dichloropropane	ND		ug/kg	3.8	--	1
Dibromochloromethane	ND		ug/kg	1.1	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	--	1
Tetrachloroethene	ND		ug/kg	1.1	--	1
Chlorobenzene	ND		ug/kg	1.1	--	1
Trichlorofluoromethane	ND		ug/kg	5.4	--	1
1,2-Dichloroethane	ND		ug/kg	1.1	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	--	1
Bromodichloromethane	ND		ug/kg	1.1	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	--	1
1,1-Dichloropropene	ND		ug/kg	5.4	--	1
Bromoform	ND		ug/kg	4.4	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	--	1
Benzene	ND		ug/kg	1.1	--	1
Toluene	ND		ug/kg	1.6	--	1
Ethylbenzene	ND		ug/kg	1.1	--	1
Chloromethane	ND		ug/kg	5.4	--	1
Bromomethane	ND		ug/kg	2.2	--	1
Vinyl chloride	ND		ug/kg	2.2	--	1
Chloroethane	ND		ug/kg	2.2	--	1
1,1-Dichloroethene	ND		ug/kg	1.1	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	--	1
Trichloroethene	ND		ug/kg	1.1	--	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

SAMPLE RESULTS

Lab ID: L1428672-01
Client ID: LB-04_1.0-4.0
Sample Location: KITTERY, MAINE

Date Collected: 11/25/14 10:50
Date Received: 11/26/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	--	1
Methyl tert butyl ether	ND		ug/kg	2.2	--	1
p/m-Xylene	ND		ug/kg	2.2	--	1
o-Xylene	ND		ug/kg	2.2	--	1
Xylenes, Total	ND		ug/kg	2.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	--	1
Dibromomethane	ND		ug/kg	11	--	1
1,4-Dichlorobutane	ND		ug/kg	11	--	1
1,2,3-Trichloropropane	ND		ug/kg	11	--	1
Styrene	ND		ug/kg	2.2	--	1
Dichlorodifluoromethane	ND		ug/kg	11	--	1
Acetone	ND		ug/kg	39	--	1
Carbon disulfide	ND		ug/kg	11	--	1
2-Butanone	ND		ug/kg	11	--	1
Vinyl acetate	ND		ug/kg	11	--	1
4-Methyl-2-pentanone	ND		ug/kg	11	--	1
2-Hexanone	ND		ug/kg	11	--	1
Ethyl methacrylate	ND		ug/kg	11	--	1
Acrylonitrile	ND		ug/kg	4.4	--	1
Bromochloromethane	ND		ug/kg	5.4	--	1
Tetrahydrofuran	ND		ug/kg	22	--	1
2,2-Dichloropropane	ND		ug/kg	5.4	--	1
1,2-Dibromoethane	ND		ug/kg	4.4	--	1
1,3-Dichloropropane	ND		ug/kg	5.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	--	1
Bromobenzene	ND		ug/kg	5.4	--	1
n-Butylbenzene	ND		ug/kg	1.1	--	1
sec-Butylbenzene	ND		ug/kg	1.1	--	1
tert-Butylbenzene	ND		ug/kg	5.4	--	1
o-Chlorotoluene	ND		ug/kg	5.4	--	1
p-Chlorotoluene	ND		ug/kg	5.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	--	1
Hexachlorobutadiene	ND		ug/kg	5.4	--	1
Isopropylbenzene	ND		ug/kg	1.1	--	1
p-Isopropyltoluene	ND		ug/kg	1.1	--	1
Naphthalene	ND		ug/kg	5.4	--	1
n-Propylbenzene	ND		ug/kg	1.1	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

SAMPLE RESULTS

Lab ID: L1428672-01
Client ID: LB-04_1.0-4.0
Sample Location: KITTERY, MAINE

Date Collected: 11/25/14 10:50
Date Received: 11/26/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	--	1
Ethyl ether	ND		ug/kg	5.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	125		70-130
Dibromofluoromethane	108		70-130

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/01/14 08:49
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01 Batch: WG744811-3					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	5.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	5.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	5.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/01/14 08:49
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01 Batch: WG744811-3					
Trichloroethene	ND		ug/kg	1.0	--
1,2-Dichlorobenzene	ND		ug/kg	5.0	--
1,3-Dichlorobenzene	ND		ug/kg	5.0	--
1,4-Dichlorobenzene	ND		ug/kg	5.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	10	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	10	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	10	--
2-Butanone	ND		ug/kg	10	--
Vinyl acetate	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	5.0	--
Tetrahydrofuran	ND		ug/kg	20	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	5.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/01/14 08:49
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01 Batch: WG744811-3					
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	5.0	--
1,3,5-Trichlorobenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	5.0	--
p-Chlorotoluene	ND		ug/kg	5.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	--
Hexachlorobutadiene	ND		ug/kg	5.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	5.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Ethyl ether	ND		ug/kg	5.0	--
Methyl Acetate	ND		ug/kg	20	--
Ethyl Acetate	ND		ug/kg	20	--
Isopropyl Ether	ND		ug/kg	4.0	--
Cyclohexane	ND		ug/kg	20	--
Tert-Butyl Alcohol	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	100	--
Methyl cyclohexane	ND		ug/kg	4.0	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/01/14 08:49
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01 Batch: WG744811-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01 Batch: WG744811-1 WG744811-2								
Methylene chloride	95		100		70-130	5		30
1,1-Dichloroethane	90		86		70-130	5		30
Chloroform	98		95		70-130	3		30
Carbon tetrachloride	91		83		70-130	9		30
1,2-Dichloropropane	86		84		70-130	2		30
Dibromochloromethane	100		99		70-130	1		30
1,1,2-Trichloroethane	95		96		70-130	1		30
2-Chloroethylvinyl ether	82		80		70-130	2		30
Tetrachloroethene	93		86		70-130	8		30
Chlorobenzene	97		94		70-130	3		30
Trichlorofluoromethane	116		101		70-139	14		30
1,2-Dichloroethane	102		102		70-130	0		30
1,1,1-Trichloroethane	100		91		70-130	9		30
Bromodichloromethane	98		96		70-130	2		30
trans-1,3-Dichloropropene	98		99		70-130	1		30
cis-1,3-Dichloropropene	94		93		70-130	1		30
1,1-Dichloropropene	89		80		70-130	11		30
Bromoform	90		90		70-130	0		30
1,1,2,2-Tetrachloroethane	94		95		70-130	1		30
Benzene	90		86		70-130	5		30
Toluene	92		87		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01 Batch: WG744811-1 WG744811-2								
Ethylbenzene	96		90		70-130	6		30
Chloromethane	90		87		52-130	3		30
Bromomethane	122		119		57-147	2		30
Vinyl chloride	80		70		67-130	13		30
Chloroethane	113		107		50-151	5		30
1,1-Dichloroethene	90		81		65-135	11		30
trans-1,2-Dichloroethene	89		84		70-130	6		30
Trichloroethene	93		87		70-130	7		30
1,2-Dichlorobenzene	97		94		70-130	3		30
1,3-Dichlorobenzene	98		94		70-130	4		30
1,4-Dichlorobenzene	98		94		70-130	4		30
Methyl tert butyl ether	91		91		66-130	0		30
p/m-Xylene	96		91		70-130	5		30
o-Xylene	96		92		70-130	4		30
cis-1,2-Dichloroethene	95		90		70-130	5		30
Dibromomethane	96		95		70-130	1		30
1,4-Dichlorobutane	91		92		70-130	1		30
1,2,3-Trichloropropane	96		96		68-130	0		30
Styrene	96		94		70-130	2		30
Dichlorodifluoromethane	82		72		30-146	13		30
Acetone	83		85		54-140	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01 Batch: WG744811-1 WG744811-2								
Carbon disulfide	76		70		59-130	8		30
2-Butanone	81		82		70-130	1		30
Vinyl acetate	94		94		70-130	0		30
4-Methyl-2-pentanone	72		75		70-130	4		30
2-Hexanone	73		74		70-130	1		30
Ethyl methacrylate	85		87		70-130	2		30
Acrylonitrile	90		82		70-130	9		30
Bromochloromethane	100		97		70-130	3		30
Tetrahydrofuran	80		82		66-130	2		30
2,2-Dichloropropane	100		92		70-130	8		30
1,2-Dibromoethane	96		96		70-130	0		30
1,3-Dichloropropane	94		94		69-130	0		30
1,1,1,2-Tetrachloroethane	101		99		70-130	2		30
Bromobenzene	96		95		70-130	1		30
n-Butylbenzene	98		90		70-130	9		30
sec-Butylbenzene	96		88		70-130	9		30
tert-Butylbenzene	94		88		70-130	7		30
1,3,5-Trichlorobenzene	98		94		70-139	4		30
o-Chlorotoluene	101		96		70-130	5		30
p-Chlorotoluene	98		94		70-130	4		30
1,2-Dibromo-3-chloropropane	88		89		68-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01 Batch: WG744811-1 WG744811-2								
Hexachlorobutadiene	93		82		67-130	13		30
Isopropylbenzene	95		88		70-130	8		30
p-Isopropyltoluene	95		88		70-130	8		30
Naphthalene	90		87		70-130	3		30
n-Propylbenzene	98		91		70-130	7		30
1,2,3-Trichlorobenzene	92		89		70-130	3		30
1,2,4-Trichlorobenzene	94		88		70-130	7		30
1,3,5-Trimethylbenzene	98		94		70-130	4		30
1,2,4-Trimethylbenzene	99		94		70-130	5		30
trans-1,4-Dichloro-2-butene	96		99		70-130	3		30
Halothane	92		84		70-130	9		20
Ethyl ether	81		93		67-130	14		30
Methyl Acetate	82		83		65-130	1		30
Ethyl Acetate	84		84		70-130	0		30
Isopropyl Ether	85		84		66-130	1		30
Cyclohexane	79		69	Q	70-130	14		30
Tert-Butyl Alcohol	73		76		70-130	4		30
Ethyl-Tert-Butyl-Ether	90		89		70-130	1		30
Tertiary-Amyl Methyl Ether	91		91		70-130	0		30
1,4-Dioxane	75		76		65-136	1		30
Methyl cyclohexane	83		73		70-130	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01 Batch: WG744811-1 WG744811-2								
1,1,2-Trichloro-1,2,2-Trifluoroethane	90		79		70-130	13		30
1,4-Diethylbenzene	101		94		70-130	7		30
4-Ethyltoluene	102		96		70-130	6		30
1,2,4,5-Tetramethylbenzene	102		96		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	118		113		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	101		99		70-130
Dibromofluoromethane	110		110		70-130

SEMIVOLATILES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

SAMPLE RESULTS

Lab ID: L1428672-01 D
 Client ID: LB-04_1.0-4.0
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/01/14 13:14
 Analyst: RC
 Percent Solids: 94%

Date Collected: 11/25/14 10:50
 Date Received: 11/26/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 11/29/14 15:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	700	--	5
2-Chloronaphthalene	ND		ug/kg	870	--	5
Fluoranthene	1000		ug/kg	520	--	5
Naphthalene	ND		ug/kg	870	--	5
Benzo(a)anthracene	ND		ug/kg	520	--	5
Benzo(a)pyrene	ND		ug/kg	700	--	5
Benzo(b)fluoranthene	580		ug/kg	520	--	5
Benzo(k)fluoranthene	ND		ug/kg	520	--	5
Chrysene	550		ug/kg	520	--	5
Acenaphthylene	ND		ug/kg	700	--	5
Anthracene	ND		ug/kg	520	--	5
Benzo(ghi)perylene	ND		ug/kg	700	--	5
Fluorene	ND		ug/kg	870	--	5
Phenanthrene	ND		ug/kg	520	--	5
Dibenzo(a,h)anthracene	ND		ug/kg	520	--	5
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	700	--	5
Pyrene	810		ug/kg	520	--	5
1-Methylnaphthalene	ND		ug/kg	870	--	5
2-Methylnaphthalene	ND		ug/kg	1000	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	82		30-120
4-Terphenyl-d14	72		18-120

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 12/01/14 11:51
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 11/29/14 15:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG744352-1					
Acenaphthene	ND		ug/kg	130	--
2-Chloronaphthalene	ND		ug/kg	160	--
Fluoranthene	ND		ug/kg	99	--
Naphthalene	ND		ug/kg	160	--
Benzo(a)anthracene	ND		ug/kg	99	--
Benzo(a)pyrene	ND		ug/kg	130	--
Benzo(b)fluoranthene	ND		ug/kg	99	--
Benzo(k)fluoranthene	ND		ug/kg	99	--
Chrysene	ND		ug/kg	99	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	99	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	99	--
Dibenzo(a,h)anthracene	ND		ug/kg	99	--
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	99	--
1-Methylnaphthalene	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	87		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG744352-2 WG744352-3								
Acenaphthene	71		72		31-137	1		50
2-Chloronaphthalene	75		76		40-140	1		50
Fluoranthene	81		79		40-140	3		50
Naphthalene	67		67		40-140	0		50
Benzo(a)anthracene	84		81		40-140	4		50
Benzo(a)pyrene	104		87		40-140	18		50
Benzo(b)fluoranthene	116		90		40-140	25		50
Benzo(k)fluoranthene	110		82		40-140	29		50
Chrysene	83		81		40-140	2		50
Acenaphthylene	73		75		40-140	3		50
Anthracene	77		76		40-140	1		50
Benzo(ghi)perylene	102		87		40-140	16		50
Fluorene	75		76		40-140	1		50
Phenanthrene	76		74		40-140	3		50
Dibenzo(a,h)anthracene	112		88		40-140	24		50
Indeno(1,2,3-cd)Pyrene	104		89		40-140	16		50
Pyrene	79		78		35-142	1		50
1-Methylnaphthalene	97		98			1		50
2-Methylnaphthalene	75		76		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG744352-2 WG744352-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Nitrobenzene-d5	99		99		23-120
2-Fluorobiphenyl	89		87		30-120
4-Terphenyl-d14	88		85		18-120

PETROLEUM HYDROCARBONS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

SAMPLE RESULTS

Lab ID: L1428672-01 D
 Client ID: LB-04_1.0-4.0
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8015C(M)
 Analytical Date: 12/01/14 18:21
 Analyst: AR
 Percent Solids: 94%

Date Collected: 11/25/14 10:50
 Date Received: 11/26/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 11/30/14 04:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	544000		ug/kg	172000	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 12/01/14 15:03
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 11/30/14 04:00

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01 Batch: WG744363-1					
TPH	ND		ug/kg	31700	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 Batch: WG744363-2								
TPH	84		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	87				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 QC Batch ID: WG744363-3 QC Sample: L1428491-29 Client ID: DUP Sample						
TPH	169000	109000	ug/kg	43	Q	40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	86		88		40-140



PCBS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

SAMPLE RESULTS

Lab ID: L1428672-01
 Client ID: LB-04_1.0-4.0
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/01/14 16:51
 Analyst: JT
 Percent Solids: 94%

Date Collected: 11/25/14 10:50
 Date Received: 11/26/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 11/30/14 15:50
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/01/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/01/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
PCB by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.7	--	1	A
Aroclor 1221	ND		ug/kg	34.7	--	1	A
Aroclor 1232	ND		ug/kg	34.7	--	1	A
Aroclor 1242	ND		ug/kg	34.7	--	1	A
Aroclor 1248	ND		ug/kg	34.7	--	1	A
Aroclor 1254	ND		ug/kg	34.7	--	1	A
Aroclor 1260	ND		ug/kg	34.7	--	1	A
Aroclor 1262	ND		ug/kg	34.7	--	1	A
Aroclor 1268	ND		ug/kg	34.7	--	1	A
PCBs, Total	ND		ug/kg	34.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8082A
 Analytical Date: 12/01/14 16:13
 Analyst: JT

Extraction Method: EPA 3546
 Extraction Date: 11/30/14 15:50
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/01/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/01/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
PCB by GC - Westborough Lab for sample(s): 01 Batch: WG744400-1						
Aroclor 1016	ND		ug/kg	31.3	--	A
Aroclor 1221	ND		ug/kg	31.3	--	A
Aroclor 1232	ND		ug/kg	31.3	--	A
Aroclor 1242	ND		ug/kg	31.3	--	A
Aroclor 1248	ND		ug/kg	31.3	--	A
Aroclor 1254	ND		ug/kg	31.3	--	A
Aroclor 1260	ND		ug/kg	31.3	--	A
Aroclor 1262	ND		ug/kg	31.3	--	A
Aroclor 1268	ND		ug/kg	31.3	--	A
PCBs, Total	ND		ug/kg	31.3	--	A

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	79		30-150	B



Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
PCB by GC - Westborough Lab Associated sample(s): 01 Batch: WG744400-2 WG744400-3									
Aroclor 1016	59		48		40-140	21		50	A
Aroclor 1260	64		54		40-140	17		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		52		30-150	A
Decachlorobiphenyl	82		70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		58		30-150	B
Decachlorobiphenyl	81		68		30-150	B

PESTICIDES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

SAMPLE RESULTS

Lab ID: L1428672-01
 Client ID: LB-04_1.0-4.0
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 12/01/14 14:46
 Analyst: GP
 Percent Solids: 94%

Date Collected: 11/25/14 10:50
 Date Received: 11/26/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 11/30/14 15:07
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/01/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	8.21	--	1	A
Lindane	ND		ug/kg	3.42	--	1	A
Alpha-BHC	ND		ug/kg	3.42	--	1	A
Beta-BHC	ND		ug/kg	8.21	--	1	A
Heptachlor	ND		ug/kg	4.10	--	1	A
Aldrin	ND		ug/kg	8.21	--	1	A
Heptachlor epoxide	ND		ug/kg	15.4	--	1	A
Endrin	ND		ug/kg	3.42	--	1	A
Endrin aldehyde	ND		ug/kg	10.3	--	1	A
Endrin ketone	ND		ug/kg	8.21	--	1	A
Dieldrin	ND		ug/kg	5.13	--	1	A
4,4'-DDE	ND		ug/kg	8.21	--	1	A
4,4'-DDD	ND		ug/kg	8.21	--	1	A
4,4'-DDT	ND		ug/kg	15.4	--	1	A
Endosulfan I	ND		ug/kg	8.21	--	1	A
Endosulfan II	ND		ug/kg	8.21	--	1	A
Endosulfan sulfate	ND		ug/kg	3.42	--	1	A
Methoxychlor	ND		ug/kg	15.4	--	1	A
Toxaphene	ND		ug/kg	154	--	1	A
Chlordane	ND		ug/kg	66.7	--	1	A
cis-Chlordane	ND		ug/kg	10.3	--	1	A
trans-Chlordane	ND		ug/kg	10.3	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	112		30-150	A
Decachlorobiphenyl	96		30-150	A

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

SAMPLE RESULTS

Lab ID: L1428672-01
 Client ID: LB-04_1.0-4.0
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/02/14 13:30
 Analyst: SS
 Percent Solids: 94%
 Methylation Date: 12/02/14 09:07

Date Collected: 11/25/14 10:50
 Date Received: 11/26/14
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 11/29/14 09:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	177	--	1	A
2,4,5-T	ND		ug/kg	177	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	177	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	48		30-150	A
DCAA	61		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/02/14 12:12
Analyst: SS

Extraction Method: EPA 8151A
Extraction Date: 11/29/14 09:19

Methylation Date: 12/02/14 09:07

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG744315-1						
2,4-D	ND		ug/kg	162	--	A
2,4,5-T	ND		ug/kg	162	--	A
2,4,5-TP (Silvex)	ND		ug/kg	162	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	70		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/01/14 14:07
Analyst: GP

Extraction Method: EPA 3546
Extraction Date: 11/30/14 15:07
Cleanup Method: EPA 3620B
Cleanup Date: 12/01/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG744395-1						
Delta-BHC	ND		ug/kg	7.68	--	A
Lindane	ND		ug/kg	3.20	--	A
Alpha-BHC	ND		ug/kg	3.20	--	A
Beta-BHC	ND		ug/kg	7.68	--	A
Heptachlor	ND		ug/kg	3.84	--	A
Aldrin	ND		ug/kg	7.68	--	A
Heptachlor epoxide	ND		ug/kg	14.4	--	A
Endrin	ND		ug/kg	3.20	--	A
Endrin aldehyde	ND		ug/kg	9.60	--	A
Endrin ketone	ND		ug/kg	7.68	--	A
Dieldrin	ND		ug/kg	4.80	--	A
4,4'-DDE	ND		ug/kg	7.68	--	A
4,4'-DDD	ND		ug/kg	7.68	--	A
4,4'-DDT	ND		ug/kg	14.4	--	A
Endosulfan I	ND		ug/kg	7.68	--	A
Endosulfan II	ND		ug/kg	7.68	--	A
Endosulfan sulfate	ND		ug/kg	3.20	--	A
Methoxychlor	ND		ug/kg	14.4	--	A
Toxaphene	ND		ug/kg	144	--	A
Chlordane	163		ug/kg	62.4	--	B
cis-Chlordane	ND		ug/kg	9.60	--	B
trans-Chlordane	14.4		ug/kg	9.60	--	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/01/14 14:07
Analyst: GP

Extraction Method: EPA 3546
Extraction Date: 11/30/14 15:07
Cleanup Method: EPA 3620B
Cleanup Date: 12/01/14

Parameter	Result	Qualifier	Units	RL	MDL
-----------	--------	-----------	-------	----	-----

Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG744395-1

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	106		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	88		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG744315-2 WG744315-3									
2,4-D	74		82		30-150	10		30	A
2,4,5-T	76		81		30-150	6		30	A
2,4,5-TP (Silvex)	76		82		30-150	8		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	62		66		30-150	A
DCAA	74		71		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG744395-2 WG744395-3									
Delta-BHC	89		98		30-150	10		30	A
Lindane	115		129		30-150	11		30	A
Alpha-BHC	102		115		30-150	12		30	A
Beta-BHC	114		124		30-150	8		30	A
Heptachlor	103		118		30-150	14		30	A
Aldrin	94		106		30-150	12		30	A
Heptachlor epoxide	106		120		30-150	12		30	A
Endrin	115		129		30-150	11		30	A
Endrin aldehyde	75		88		30-150	16		30	A
Endrin ketone	89		102		30-150	14		30	A
Dieldrin	111		125		30-150	12		30	A
4,4'-DDE	101		114		30-150	12		30	A
4,4'-DDD	106		120		30-150	12		30	A
4,4'-DDT	104		115		30-150	10		30	A
Endosulfan I	103		117		30-150	13		30	A
Endosulfan II	93		106		30-150	13		30	A
Endosulfan sulfate	93		108		30-150	15		30	A
Methoxychlor	91		103		30-150	12		30	A
cis-Chlordane	99		111		30-150	11		30	A
trans-Chlordane	103		118		30-150	14		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG744395-2 WG744395-3								

<u>Surrogate</u>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	107		102		30-150	B
Decachlorobiphenyl	112		99		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		98		30-150	A
Decachlorobiphenyl	87		88		30-150	A

METALS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

SAMPLE RESULTS

Lab ID: L1428672-01
 Client ID: LB-04_1.0-4.0
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Percent Solids: 94%

Date Collected: 11/25/14 10:50
 Date Received: 11/26/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	18		mg/kg	0.40	--	1	12/01/14 22:02	12/02/14 20:44	EPA 3050B	1,6010C	TT
Barium, Total	32		mg/kg	0.40	--	1	12/01/14 22:02	12/02/14 20:44	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.40	--	1	12/01/14 22:02	12/02/14 20:44	EPA 3050B	1,6010C	TT
Chromium, Total	37		mg/kg	0.40	--	1	12/01/14 22:02	12/02/14 20:44	EPA 3050B	1,6010C	TT
Lead, Total	19		mg/kg	2.0	--	1	12/01/14 22:02	12/02/14 20:44	EPA 3050B	1,6010C	TT
Mercury, Total	0.10		mg/kg	0.07	--	1	12/02/14 09:49	12/02/14 13:38	EPA 7471B	1,7471B	MC
Selenium, Total	ND		mg/kg	0.81	--	1	12/01/14 22:02	12/02/14 20:44	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.40	--	1	12/01/14 22:02	12/02/14 20:44	EPA 3050B	1,6010C	TT



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG744712-1									
Arsenic, Total	ND	mg/kg	0.40	--	1	12/01/14 22:02	12/02/14 18:17	1,6010C	TT
Barium, Total	ND	mg/kg	0.40	--	1	12/01/14 22:02	12/02/14 18:17	1,6010C	TT
Cadmium, Total	ND	mg/kg	0.40	--	1	12/01/14 22:02	12/02/14 18:17	1,6010C	TT
Chromium, Total	ND	mg/kg	0.40	--	1	12/01/14 22:02	12/02/14 18:17	1,6010C	TT
Lead, Total	ND	mg/kg	2.0	--	1	12/01/14 22:02	12/02/14 18:17	1,6010C	TT
Selenium, Total	ND	mg/kg	0.80	--	1	12/01/14 22:02	12/02/14 18:17	1,6010C	TT
Silver, Total	ND	mg/kg	0.40	--	1	12/01/14 22:02	12/02/14 18:17	1,6010C	TT

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG744769-1									
Mercury, Total	ND	mg/kg	0.08	--	1	12/02/14 09:49	12/02/14 13:34	1,7471B	MC

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG744712-2 SRM Lot Number: D083-540								
Arsenic, Total	98		-		78-122	-		
Barium, Total	90		-		82-117	-		
Cadmium, Total	95		-		82-118	-		
Chromium, Total	96		-		79-121	-		
Lead, Total	91		-		81-119	-		
Selenium, Total	96		-		78-123	-		
Silver, Total	96		-		74-125	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG744769-2 SRM Lot Number: D083-540								
Mercury, Total	103		-		75-126	-		

Matrix Spike Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG744712-4 QC Sample: L1428590-01 Client ID: MS Sample												
Arsenic, Total	2.3	11.3	11	77		-	-		75-125	-		20
Barium, Total	43	188	240	105		-	-		75-125	-		20
Cadmium, Total	ND	4.8	4.5	94		-	-		75-125	-		20
Chromium, Total	13	18.8	32	101		-	-		75-125	-		20
Lead, Total	5.5	48	46	84		-	-		75-125	-		20
Selenium, Total	ND	11.3	8.6	76		-	-		75-125	-		20
Silver, Total	ND	28.2	25	88		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG744769-3 WG744769-4 QC Sample: L1428784-07 Client ID: MS Sample												
Mercury, Total	ND	0.148	0.22	149	Q	0.24	160	Q	80-120	9		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG744712-3 QC Sample: L1428590-01 Client ID: DUP Sample						
Arsenic, Total	2.3	2.0	mg/kg	14		20
Barium, Total	43	66	mg/kg	42	Q	20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	13	14	mg/kg	7		20
Lead, Total	5.5	5.5	mg/kg	0		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

SAMPLE RESULTS

Lab ID: L1428672-01
Client ID: LB-04_1.0-4.0
Sample Location: KITTERY, MAINE
Matrix: Soil

Date Collected: 11/25/14 10:50
Date Received: 11/26/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.7		%	0.100	NA	1	-	11/26/14 19:34	30,2540G	RT



Lab Duplicate Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG744246-1 QC Sample: L1428589-01 Client ID: DUP Sample						
Solids, Total	83.0	82.7	%	0		20

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 11/26/2014 17:39

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1428672-01A	Vial MeOH preserved	A	N/A	2.6	Y	Absent	8260HLW(14)
L1428672-01B	Vial water preserved	A	N/A	2.6	Y	Absent	8260HLW(14)
L1428672-01C	Vial water preserved	A	N/A	2.6	Y	Absent	8260HLW(14)
L1428672-01D	Glass 250ml/8oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DRO-D(14),CD-TI(180)
L1428672-01E	Glass 250ml/8oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DRO-D(14),CD-TI(180)

*Values in parentheses indicate holding time in days



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a "Total" result is defined as the summation of results for individual isomers or Aroclors. If a "Total" result is requested, the results of its individual components will also be reported. This is applicable to "Total" results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

Data Qualifiers

- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428672
Report Date: 12/04/14

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 11/26/14

Serial No: 12041417-41
ALPHA Job #: 11428672

ALPHA ANALYTICAL
8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Project Information
Project Name: **PNSY**
Project Location: **Kittery, Maine**
Project #: **41242-000**
Project Manager: **Erin Force**
ALPHA Quote #:

Report Information - Data Deliverables
 ADEx EMAIL
 Same as Client info PO #:

Client Information
Client: **Haley & Aldrich, Inc.**
Address: **3 Bedford Farms Drive
Bedford, NH 05110**
Phone: **603-391-3326**

Regulatory Requirements & Project Information Requirements
 Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed. Program Criteria

Turn-Around Time
 Standard RUSH (only confirmed if pre-approved!)
Date Due: **12/04/14**

Email: **eforce@haleyaldrich.com**
mhatton@haleyaldrich.com
Additional Project Information:

***Only test TCLP for individual RCRA8 metals if exceedances of 20x Rule occur in RCRA8 metal testing.**

ANALYSIS	VOC: <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 824 <input type="checkbox"/> 824.2	SVOC: <input type="checkbox"/> ABN <input checked="" type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	EPH: <input type="checkbox"/> Ranges & Targets <input checked="" type="checkbox"/> RCRA8	YPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	PCB: <input checked="" type="checkbox"/> PEST	TPH: <input checked="" type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	Herbicides	TCLP for RCRA 8*	SAMPLE INFO
									Filtration <input type="checkbox"/> Field <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials
-----------------------------	-----------	-----------------	-----------------	---------------	------------------

28672-01	LB-04_1.0-4.0	11/25/14	1050	Sr1	MJD
----------	---------------	----------	------	-----	-----

X	X	X	X	X	X	X	X	X	X
---	---	---	---	---	---	---	---	---	---

OK MJD

LAND BORINGS ENVIRONMENTAL COC

NOTE: deliver to WESTBROUGHT LAB
Vials/VoCS frozen @ 2000 on 11/25 vials in freezer.

- Container Type**
 = Plastic
 = Amber glass
 = Vial
 = Glass
 = Bacteria cup
 = Cube
 = Other
 = Encore
 = BOD Bottle
- Preservative**
 A = None
 B = HCl
 C = HNO₃
 D = H₂SO₄
 E = NaOH
 F = MeOH
 G = NaHSO₄
 H = Na₂S₂O₈
 I = Ascorbic Acid
 J = NH₄Cl
 K = Zn Acetate
 O = Other

Container Type	AV	A	A	A	A	A	A
Preservative	F	A	A	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dodson	11/26/14 0555	Jeshwan Bayar	11/26/14 1000
Erin Force	11/26/14 1510	AAL	11/26/14 1510
	11/26/14 1657		11/26/14 1657

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

570X



ANALYTICAL REPORT

Lab Number:	L1428775
Client:	Haley & Aldrich 3 Bedford Farms Drive Bedford, NH 03110
ATTN:	Meghan Hatton
Phone:	(603) 625-5353
Project Name:	PNSY
Project Number:	41242-000
Report Date:	12/07/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1428775-01	LB-05_0-4	SOIL	KITTERY, MAINE	12/01/14 10:50	12/01/14
L1428775-02	LB-05_4-8	SOIL	KITTERY, MAINE	12/01/14 12:10	12/01/14
L1428775-03	LB-05_19-21	SOIL	KITTERY, MAINE	12/01/14 13:00	12/01/14

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Case Narrative (continued)

Volatile Organics

L1428775-03 (LB-05_19-21) has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 12/07/14

ORGANICS

VOLATILES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-01
 Client ID: LB-05_0-4
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/03/14 16:59
 Analyst: BN
 Percent Solids: 92%

Date Collected: 12/01/14 10:50
 Date Received: 12/01/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	--	1
1,1-Dichloroethane	ND		ug/kg	2.2	--	1
Chloroform	ND		ug/kg	2.2	--	1
Carbon tetrachloride	ND		ug/kg	1.4	--	1
1,2-Dichloropropane	ND		ug/kg	5.0	--	1
Dibromochloromethane	ND		ug/kg	1.4	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	--	1
Tetrachloroethene	ND		ug/kg	1.4	--	1
Chlorobenzene	ND		ug/kg	1.4	--	1
Trichlorofluoromethane	ND		ug/kg	7.2	--	1
1,2-Dichloroethane	ND		ug/kg	1.4	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	--	1
Bromodichloromethane	ND		ug/kg	1.4	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	--	1
1,1-Dichloropropene	ND		ug/kg	7.2	--	1
Bromoform	ND		ug/kg	5.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	--	1
Benzene	ND		ug/kg	1.4	--	1
Toluene	ND		ug/kg	2.2	--	1
Ethylbenzene	ND		ug/kg	1.4	--	1
Chloromethane	ND		ug/kg	7.2	--	1
Bromomethane	ND		ug/kg	2.9	--	1
Vinyl chloride	ND		ug/kg	2.9	--	1
Chloroethane	ND		ug/kg	2.9	--	1
1,1-Dichloroethene	ND		ug/kg	1.4	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	--	1
Trichloroethene	ND		ug/kg	1.4	--	1
1,2-Dichlorobenzene	ND		ug/kg	7.2	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-01
Client ID: LB-05_0-4
Sample Location: KITTERY, MAINE

Date Collected: 12/01/14 10:50
Date Received: 12/01/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	7.2	--	1
1,4-Dichlorobenzene	ND		ug/kg	7.2	--	1
Methyl tert butyl ether	ND		ug/kg	2.9	--	1
p/m-Xylene	ND		ug/kg	2.9	--	1
o-Xylene	ND		ug/kg	2.9	--	1
Xylenes, Total	ND		ug/kg	2.9	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	--	1
Dibromomethane	ND		ug/kg	14	--	1
1,4-Dichlorobutane	ND		ug/kg	14	--	1
1,2,3-Trichloropropane	ND		ug/kg	14	--	1
Styrene	ND		ug/kg	2.9	--	1
Dichlorodifluoromethane	ND		ug/kg	14	--	1
Acetone	ND		ug/kg	52	--	1
Carbon disulfide	ND		ug/kg	14	--	1
2-Butanone	ND		ug/kg	14	--	1
Vinyl acetate	ND		ug/kg	14	--	1
4-Methyl-2-pentanone	ND		ug/kg	14	--	1
2-Hexanone	ND		ug/kg	14	--	1
Ethyl methacrylate	ND		ug/kg	14	--	1
Acrylonitrile	ND		ug/kg	5.8	--	1
Bromochloromethane	ND		ug/kg	7.2	--	1
Tetrahydrofuran	ND		ug/kg	29	--	1
2,2-Dichloropropane	ND		ug/kg	7.2	--	1
1,2-Dibromoethane	ND		ug/kg	5.8	--	1
1,3-Dichloropropane	ND		ug/kg	7.2	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	--	1
Bromobenzene	ND		ug/kg	7.2	--	1
n-Butylbenzene	ND		ug/kg	1.4	--	1
sec-Butylbenzene	ND		ug/kg	1.4	--	1
tert-Butylbenzene	ND		ug/kg	7.2	--	1
o-Chlorotoluene	ND		ug/kg	7.2	--	1
p-Chlorotoluene	ND		ug/kg	7.2	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.2	--	1
Hexachlorobutadiene	ND		ug/kg	7.2	--	1
Isopropylbenzene	ND		ug/kg	1.4	--	1
p-Isopropyltoluene	ND		ug/kg	1.4	--	1
Naphthalene	ND		ug/kg	7.2	--	1
n-Propylbenzene	ND		ug/kg	1.4	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-01
Client ID: LB-05_0-4
Sample Location: KITTERY, MAINE

Date Collected: 12/01/14 10:50
Date Received: 12/01/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	7.2	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.2	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.2	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.2	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.2	--	1
Ethyl ether	ND		ug/kg	7.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-02
 Client ID: LB-05_4-8
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/03/14 17:25
 Analyst: BN
 Percent Solids: 86%

Date Collected: 12/01/14 12:10
 Date Received: 12/01/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	15	--	1
1,1-Dichloroethane	ND		ug/kg	2.2	--	1
Chloroform	ND		ug/kg	2.2	--	1
Carbon tetrachloride	ND		ug/kg	1.5	--	1
1,2-Dichloropropane	ND		ug/kg	5.2	--	1
Dibromochloromethane	ND		ug/kg	1.5	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	--	1
Tetrachloroethene	ND		ug/kg	1.5	--	1
Chlorobenzene	ND		ug/kg	1.5	--	1
Trichlorofluoromethane	ND		ug/kg	7.4	--	1
1,2-Dichloroethane	ND		ug/kg	1.5	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	--	1
Bromodichloromethane	ND		ug/kg	1.5	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.5	--	1
1,1-Dichloropropene	ND		ug/kg	7.4	--	1
Bromoform	ND		ug/kg	5.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	--	1
Benzene	ND		ug/kg	1.5	--	1
Toluene	ND		ug/kg	2.2	--	1
Ethylbenzene	ND		ug/kg	1.5	--	1
Chloromethane	ND		ug/kg	7.4	--	1
Bromomethane	ND		ug/kg	3.0	--	1
Vinyl chloride	ND		ug/kg	3.0	--	1
Chloroethane	ND		ug/kg	3.0	--	1
1,1-Dichloroethene	ND		ug/kg	1.5	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	--	1
Trichloroethene	ND		ug/kg	1.5	--	1
1,2-Dichlorobenzene	ND		ug/kg	7.4	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-02
Client ID: LB-05_4-8
Sample Location: KITTERY, MAINE

Date Collected: 12/01/14 12:10
Date Received: 12/01/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	7.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	7.4	--	1
Methyl tert butyl ether	ND		ug/kg	3.0	--	1
p/m-Xylene	ND		ug/kg	3.0	--	1
o-Xylene	ND		ug/kg	3.0	--	1
Xylenes, Total	ND		ug/kg	3.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	--	1
Dibromomethane	ND		ug/kg	15	--	1
1,4-Dichlorobutane	ND		ug/kg	15	--	1
1,2,3-Trichloropropane	ND		ug/kg	15	--	1
Styrene	ND		ug/kg	3.0	--	1
Dichlorodifluoromethane	120		ug/kg	15	--	1
Acetone	ND		ug/kg	54	--	1
Carbon disulfide	ND		ug/kg	15	--	1
2-Butanone	ND		ug/kg	15	--	1
Vinyl acetate	ND		ug/kg	15	--	1
4-Methyl-2-pentanone	ND		ug/kg	15	--	1
2-Hexanone	ND		ug/kg	15	--	1
Ethyl methacrylate	ND		ug/kg	15	--	1
Acrylonitrile	ND		ug/kg	5.9	--	1
Bromochloromethane	ND		ug/kg	7.4	--	1
Tetrahydrofuran	ND		ug/kg	30	--	1
2,2-Dichloropropane	ND		ug/kg	7.4	--	1
1,2-Dibromoethane	ND		ug/kg	5.9	--	1
1,3-Dichloropropane	ND		ug/kg	7.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	--	1
Bromobenzene	ND		ug/kg	7.4	--	1
n-Butylbenzene	ND		ug/kg	1.5	--	1
sec-Butylbenzene	ND		ug/kg	1.5	--	1
tert-Butylbenzene	ND		ug/kg	7.4	--	1
o-Chlorotoluene	ND		ug/kg	7.4	--	1
p-Chlorotoluene	ND		ug/kg	7.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.4	--	1
Hexachlorobutadiene	ND		ug/kg	7.4	--	1
Isopropylbenzene	ND		ug/kg	1.5	--	1
p-Isopropyltoluene	ND		ug/kg	1.5	--	1
Naphthalene	ND		ug/kg	7.4	--	1
n-Propylbenzene	ND		ug/kg	1.5	--	1

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-02
 Client ID: LB-05_4-8
 Sample Location: KITTERY, MAINE

Date Collected: 12/01/14 12:10
 Date Received: 12/01/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	7.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.4	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.4	--	1
Ethyl ether	ND		ug/kg	7.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-03 D
 Client ID: LB-05_19-21
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/03/14 18:22
 Analyst: BN
 Percent Solids: 82%

Date Collected: 12/01/14 13:00
 Date Received: 12/01/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	86000	--	100
1,1-Dichloroethane	ND		ug/kg	13000	--	100
Chloroform	ND		ug/kg	13000	--	100
Carbon tetrachloride	ND		ug/kg	8600	--	100
1,2-Dichloropropane	ND		ug/kg	30000	--	100
Dibromochloromethane	ND		ug/kg	8600	--	100
1,1,2-Trichloroethane	ND		ug/kg	13000	--	100
Tetrachloroethene	ND		ug/kg	8600	--	100
Chlorobenzene	ND		ug/kg	8600	--	100
Trichlorofluoromethane	ND		ug/kg	43000	--	100
1,2-Dichloroethane	ND		ug/kg	8600	--	100
1,1,1-Trichloroethane	ND		ug/kg	8600	--	100
Bromodichloromethane	ND		ug/kg	8600	--	100
trans-1,3-Dichloropropene	ND		ug/kg	8600	--	100
cis-1,3-Dichloropropene	ND		ug/kg	8600	--	100
1,3-Dichloropropene, Total	ND		ug/kg	8600	--	100
1,1-Dichloropropene	ND		ug/kg	43000	--	100
Bromoform	ND		ug/kg	34000	--	100
1,1,2,2-Tetrachloroethane	ND		ug/kg	8600	--	100
Benzene	ND		ug/kg	8600	--	100
Toluene	ND		ug/kg	13000	--	100
Ethylbenzene	ND		ug/kg	8600	--	100
Chloromethane	ND		ug/kg	43000	--	100
Bromomethane	ND		ug/kg	17000	--	100
Vinyl chloride	ND		ug/kg	17000	--	100
Chloroethane	ND		ug/kg	17000	--	100
1,1-Dichloroethene	ND		ug/kg	8600	--	100
trans-1,2-Dichloroethene	ND		ug/kg	13000	--	100
Trichloroethene	ND		ug/kg	8600	--	100
1,2-Dichlorobenzene	ND		ug/kg	43000	--	100

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-03 D
Client ID: LB-05_19-21
Sample Location: KITTERY, MAINE

Date Collected: 12/01/14 13:00
Date Received: 12/01/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	43000	--	100
1,4-Dichlorobenzene	ND		ug/kg	43000	--	100
Methyl tert butyl ether	ND		ug/kg	17000	--	100
p/m-Xylene	ND		ug/kg	17000	--	100
o-Xylene	ND		ug/kg	17000	--	100
Xylenes, Total	ND		ug/kg	17000	--	100
cis-1,2-Dichloroethene	ND		ug/kg	8600	--	100
1,2-Dichloroethene, Total	ND		ug/kg	8600	--	100
Dibromomethane	ND		ug/kg	86000	--	100
1,4-Dichlorobutane	ND		ug/kg	86000	--	100
1,2,3-Trichloropropane	ND		ug/kg	86000	--	100
Styrene	ND		ug/kg	17000	--	100
Dichlorodifluoromethane	ND		ug/kg	86000	--	100
Acetone	ND		ug/kg	310000	--	100
Carbon disulfide	ND		ug/kg	86000	--	100
2-Butanone	ND		ug/kg	86000	--	100
Vinyl acetate	ND		ug/kg	86000	--	100
4-Methyl-2-pentanone	ND		ug/kg	86000	--	100
2-Hexanone	ND		ug/kg	86000	--	100
Ethyl methacrylate	ND		ug/kg	86000	--	100
Acrylonitrile	ND		ug/kg	34000	--	100
Bromochloromethane	ND		ug/kg	43000	--	100
Tetrahydrofuran	ND		ug/kg	170000	--	100
2,2-Dichloropropane	ND		ug/kg	43000	--	100
1,2-Dibromoethane	ND		ug/kg	34000	--	100
1,3-Dichloropropane	ND		ug/kg	43000	--	100
1,1,1,2-Tetrachloroethane	ND		ug/kg	8600	--	100
Bromobenzene	ND		ug/kg	43000	--	100
n-Butylbenzene	ND		ug/kg	8600	--	100
sec-Butylbenzene	ND		ug/kg	8600	--	100
tert-Butylbenzene	ND		ug/kg	43000	--	100
o-Chlorotoluene	ND		ug/kg	43000	--	100
p-Chlorotoluene	ND		ug/kg	43000	--	100
1,2-Dibromo-3-chloropropane	ND		ug/kg	43000	--	100
Hexachlorobutadiene	ND		ug/kg	43000	--	100
Isopropylbenzene	ND		ug/kg	8600	--	100
p-Isopropyltoluene	ND		ug/kg	8600	--	100
Naphthalene	ND		ug/kg	43000	--	100
n-Propylbenzene	ND		ug/kg	8600	--	100

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-03 D
 Client ID: LB-05_19-21
 Sample Location: KITTERY, MAINE

Date Collected: 12/01/14 13:00
 Date Received: 12/01/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	43000	--	100
1,2,4-Trichlorobenzene	ND		ug/kg	43000	--	100
1,3,5-Trimethylbenzene	ND		ug/kg	43000	--	100
1,2,4-Trimethylbenzene	ND		ug/kg	43000	--	100
trans-1,4-Dichloro-2-butene	ND		ug/kg	43000	--	100
Ethyl ether	ND		ug/kg	43000	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	107		70-130

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/03/14 09:04
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03 Batch: WG745263-3					
Methylene chloride	ND		ug/kg	500	--
1,1-Dichloroethane	ND		ug/kg	75	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	180	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	75	--
2-Chloroethylvinyl ether	ND		ug/kg	1000	--
Tetrachloroethene	ND		ug/kg	50	--
Chlorobenzene	ND		ug/kg	50	--
Trichlorofluoromethane	ND		ug/kg	250	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	50	--
Bromodichloromethane	ND		ug/kg	50	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	50	--
1,3-Dichloropropene, Total	ND		ug/kg	50	--
1,1-Dichloropropene	ND		ug/kg	250	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	--
Benzene	ND		ug/kg	50	--
Toluene	ND		ug/kg	75	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	250	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	100	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/03/14 09:04
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03 Batch: WG745263-3					
Trichloroethene	ND		ug/kg	50	--
1,2-Dichlorobenzene	ND		ug/kg	250	--
1,3-Dichlorobenzene	ND		ug/kg	250	--
1,4-Dichlorobenzene	ND		ug/kg	250	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	100	--
Xylenes, Total	ND		ug/kg	100	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	500	--
1,4-Dichlorobutane	ND		ug/kg	500	--
1,2,3-Trichloropropane	ND		ug/kg	500	--
Styrene	ND		ug/kg	100	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	1800	--
Carbon disulfide	ND		ug/kg	500	--
2-Butanone	ND		ug/kg	500	--
Vinyl acetate	ND		ug/kg	500	--
4-Methyl-2-pentanone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Ethyl methacrylate	ND		ug/kg	500	--
Acrylonitrile	ND		ug/kg	200	--
Bromochloromethane	ND		ug/kg	250	--
Tetrahydrofuran	ND		ug/kg	1000	--
2,2-Dichloropropane	ND		ug/kg	250	--
1,2-Dibromoethane	ND		ug/kg	200	--
1,3-Dichloropropane	ND		ug/kg	250	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/03/14 09:04
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03 Batch: WG745263-3					
Bromobenzene	ND		ug/kg	250	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	250	--
1,3,5-Trichlorobenzene	ND		ug/kg	200	--
o-Chlorotoluene	ND		ug/kg	250	--
p-Chlorotoluene	ND		ug/kg	250	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	--
Hexachlorobutadiene	ND		ug/kg	250	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	250	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	250	--
1,2,4-Trichlorobenzene	ND		ug/kg	250	--
1,3,5-Trimethylbenzene	ND		ug/kg	250	--
1,2,4-Trimethylbenzene	ND		ug/kg	250	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	--
Ethyl ether	ND		ug/kg	250	--
Methyl Acetate	ND		ug/kg	1000	--
Ethyl Acetate	ND		ug/kg	1000	--
Isopropyl Ether	ND		ug/kg	200	--
Cyclohexane	ND		ug/kg	1000	--
Tert-Butyl Alcohol	ND		ug/kg	5000	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	--
1,4-Dioxane	ND		ug/kg	5000	--
Methyl cyclohexane	ND		ug/kg	200	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	1000	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/03/14 09:04
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03 Batch: WG745263-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/03/14 09:04
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG745526-3					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	5.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	5.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	5.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/03/14 09:04
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG745526-3					
Trichloroethene	ND		ug/kg	1.0	--
1,2-Dichlorobenzene	ND		ug/kg	5.0	--
1,3-Dichlorobenzene	ND		ug/kg	5.0	--
1,4-Dichlorobenzene	ND		ug/kg	5.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	10	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	10	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	10	--
2-Butanone	ND		ug/kg	10	--
Vinyl acetate	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrolein	ND		ug/kg	25	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	5.0	--
Tetrahydrofuran	ND		ug/kg	20	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	5.0	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/03/14 09:04
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG745526-3					
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	5.0	--
1,3,5-Trichlorobenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	5.0	--
p-Chlorotoluene	ND		ug/kg	5.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	--
Hexachlorobutadiene	ND		ug/kg	5.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	5.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Ethyl ether	ND		ug/kg	5.0	--
Methyl Acetate	ND		ug/kg	20	--
Ethyl Acetate	ND		ug/kg	20	--
Isopropyl Ether	ND		ug/kg	4.0	--
Cyclohexane	ND		ug/kg	20	--
Tert-Butyl Alcohol	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	100	--
Methyl cyclohexane	ND		ug/kg	4.0	--

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/03/14 09:04
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG745526-3					
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03 Batch: WG745263-1 WG745263-2								
Methylene chloride	110		104		70-130	6		30
1,1-Dichloroethane	99		91		70-130	8		30
Chloroform	108		102		70-130	6		30
Carbon tetrachloride	108		93		70-130	15		30
1,2-Dichloropropane	94		89		70-130	5		30
Dibromochloromethane	110		105		70-130	5		30
1,1,2-Trichloroethane	105		100		70-130	5		30
2-Chloroethylvinyl ether	91		87		70-130	4		30
Tetrachloroethene	106		92		70-130	14		30
Chlorobenzene	105		98		70-130	7		30
Trichlorofluoromethane	137		118		70-139	15		30
1,2-Dichloroethane	113		110		70-130	3		30
1,1,1-Trichloroethane	116		102		70-130	13		30
Bromodichloromethane	110		105		70-130	5		30
trans-1,3-Dichloropropene	110		105		70-130	5		30
cis-1,3-Dichloropropene	104		99		70-130	5		30
1,1-Dichloropropene	102		90		70-130	13		30
Bromoform	96		92		70-130	4		30
1,1,2,2-Tetrachloroethane	100		98		70-130	2		30
Benzene	98		91		70-130	7		30
Toluene	100		92		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03 Batch: WG745263-1 WG745263-2								
Ethylbenzene	106		96		70-130	10		30
Chloromethane	99		90		52-130	10		30
Bromomethane	139		135		57-147	3		30
Vinyl chloride	92		79		67-130	15		30
Chloroethane	133		116		50-151	14		30
1,1-Dichloroethene	104		91		65-135	13		30
trans-1,2-Dichloroethene	102		92		70-130	10		30
Trichloroethene	106		96		70-130	10		30
1,2-Dichlorobenzene	103		97		70-130	6		30
1,3-Dichlorobenzene	104		97		70-130	7		30
1,4-Dichlorobenzene	103		97		70-130	6		30
Methyl tert butyl ether	102		100		66-130	2		30
p/m-Xylene	105		95		70-130	10		30
o-Xylene	105		95		70-130	10		30
cis-1,2-Dichloroethene	104		98		70-130	6		30
Dibromomethane	108		104		70-130	4		30
1,4-Dichlorobutane	94		92		70-130	2		30
1,2,3-Trichloropropane	104		97		68-130	7		30
Styrene	106		98		70-130	8		30
Dichlorodifluoromethane	100		82		30-146	20		30
Acetone	97		92		54-140	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03 Batch: WG745263-1 WG745263-2								
Carbon disulfide	87		76		59-130	13		30
2-Butanone	95		91		70-130	4		30
Vinyl acetate	106		103		70-130	3		30
4-Methyl-2-pentanone	82		81		70-130	1		30
2-Hexanone	82		80		70-130	2		30
Ethyl methacrylate	96		92		70-130	4		30
Acrylonitrile	90		85		70-130	6		30
Bromochloromethane	111		104		70-130	7		30
Tetrahydrofuran	92		89		66-130	3		30
2,2-Dichloropropane	114		102		70-130	11		30
1,2-Dibromoethane	108		103		70-130	5		30
1,3-Dichloropropane	105		100		69-130	5		30
1,1,1,2-Tetrachloroethane	113		104		70-130	8		30
Bromobenzene	103		99		70-130	4		30
n-Butylbenzene	106		93		70-130	13		30
sec-Butylbenzene	104		92		70-130	12		30
tert-Butylbenzene	103		91		70-130	12		30
1,3,5-Trichlorobenzene	106		99		70-139	7		30
o-Chlorotoluene	107		99		70-130	8		30
p-Chlorotoluene	105		97		70-130	8		30
1,2-Dibromo-3-chloropropane	99		97		68-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03 Batch: WG745263-1 WG745263-2								
Hexachlorobutadiene	103		90		67-130	13		30
Isopropylbenzene	103		92		70-130	11		30
p-Isopropyltoluene	104		92		70-130	12		30
Naphthalene	99		95		70-130	4		30
n-Propylbenzene	106		94		70-130	12		30
1,2,3-Trichlorobenzene	102		96		70-130	6		30
1,2,4-Trichlorobenzene	100		96		70-130	4		30
1,3,5-Trimethylbenzene	106		95		70-130	11		30
1,2,4-Trimethylbenzene	105		96		70-130	9		30
trans-1,4-Dichloro-2-butene	106		103		70-130	3		30
Halothane	105		93		70-130	12		20
Ethyl ether	97		99		67-130	2		30
Methyl Acetate	88		90		65-130	2		30
Ethyl Acetate	91		92		70-130	1		30
Isopropyl Ether	92		88		66-130	4		30
Cyclohexane	90		76		70-130	17		30
Tert-Butyl Alcohol	89		84		70-130	6		30
Ethyl-Tert-Butyl-Ether	98		95		70-130	3		30
Tertiary-Amyl Methyl Ether	102		100		70-130	2		30
1,4-Dioxane	97		93		65-136	4		30
Methyl cyclohexane	98		82		70-130	18		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03 Batch: WG745263-1 WG745263-2								
1,1,2-Trichloro-1,2,2-Trifluoroethane	109		92		70-130	17		30
1,4-Diethylbenzene	111		98		70-130	12		30
4-Ethyltoluene	110		98		70-130	12		30
1,2,4,5-Tetramethylbenzene	110		102		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	114		116		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	110		112		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG745526-1 WG745526-2								
Methylene chloride	112		113		70-130	1		30
1,1-Dichloroethane	110		103		70-130	7		30
Chloroform	109		106		70-130	3		30
Carbon tetrachloride	108		97		70-130	11		30
1,2-Dichloropropane	109		107		70-130	2		30
Dibromochloromethane	100		98		70-130	2		30
1,1,2-Trichloroethane	99		97		70-130	2		30
2-Chloroethylvinyl ether	104		102		70-130	2		30
Tetrachloroethene	106		93		70-130	13		30
Chlorobenzene	101		96		70-130	5		30
Trichlorofluoromethane	118		101		70-139	16		30
1,2-Dichloroethane	109		109		70-130	0		30
1,1,1-Trichloroethane	108		98		70-130	10		30
Bromodichloromethane	106		107		70-130	1		30
trans-1,3-Dichloropropene	101		98		70-130	3		30
cis-1,3-Dichloropropene	107		105		70-130	2		30
1,1-Dichloropropene	109		99		70-130	10		30
Bromoform	98		95		70-130	3		30
1,1,2,2-Tetrachloroethane	99		98		70-130	1		30
Benzene	108		103		70-130	5		30
Toluene	100		92		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG745526-1 WG745526-2								
Ethylbenzene	102		94		70-130	8		30
Chloromethane	124		98		52-130	23		30
Bromomethane	96		84		57-147	13		30
Vinyl chloride	114		100		67-130	13		30
Chloroethane	135		119		50-151	13		30
1,1-Dichloroethene	93		83		65-135	11		30
trans-1,2-Dichloroethene	108		100		70-130	8		30
Trichloroethene	111		102		70-130	8		30
1,2-Dichlorobenzene	101		98		70-130	3		30
1,3-Dichlorobenzene	104		99		70-130	5		30
1,4-Dichlorobenzene	101		98		70-130	3		30
Methyl tert butyl ether	104		105		66-130	1		30
p/m-Xylene	103		96		70-130	7		30
o-Xylene	102		97		70-130	5		30
cis-1,2-Dichloroethene	107		104		70-130	3		30
Dibromomethane	106		107		70-130	1		30
1,4-Dichlorobutane	100		99		70-130	1		30
1,2,3-Trichloropropane	100		97		68-130	3		30
Styrene	103		99		70-130	4		30
Dichlorodifluoromethane	100		85		30-146	16		30
Acetone	96		96		54-140	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG745526-1 WG745526-2								
Carbon disulfide	92		85		59-130	8		30
2-Butanone	100		100		70-130	0		30
Vinyl acetate	115		118		70-130	3		30
4-Methyl-2-pentanone	102		105		70-130	3		30
2-Hexanone	93		92		70-130	1		30
Ethyl methacrylate	97		94		70-130	3		30
Acrolein	108		113		70-130	5		30
Acrylonitrile	105		108		70-130	3		30
Bromochloromethane	108		111		70-130	3		30
Tetrahydrofuran	104		108		66-130	4		30
2,2-Dichloropropane	108		99		70-130	9		30
1,2-Dibromoethane	99		98		70-130	1		30
1,3-Dichloropropane	103		100		69-130	3		30
1,1,1,2-Tetrachloroethane	101		96		70-130	5		30
Bromobenzene	100		96		70-130	4		30
n-Butylbenzene	112		102		70-130	9		30
sec-Butylbenzene	104		93		70-130	11		30
tert-Butylbenzene	100		92		70-130	8		30
1,3,5-Trichlorobenzene	119		117		70-139	2		30
o-Chlorotoluene	103		97		70-130	6		30
p-Chlorotoluene	103		98		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG745526-1 WG745526-2								
1,2-Dibromo-3-chloropropane	88		90		68-130	2		30
Hexachlorobutadiene	104		92		67-130	12		30
Isopropylbenzene	103		94		70-130	9		30
p-Isopropyltoluene	105		96		70-130	9		30
Naphthalene	92		89		70-130	3		30
n-Propylbenzene	106		95		70-130	11		30
1,2,3-Trichlorobenzene	102		98		70-130	4		30
1,2,4-Trichlorobenzene	108		103		70-130	5		30
1,3,5-Trimethylbenzene	104		96		70-130	8		30
1,2,4-Trimethylbenzene	104		99		70-130	5		30
trans-1,4-Dichloro-2-butene	97		98		70-130	1		30
Ethyl ether	111		111		67-130	0		30
Methyl Acetate	101		103		65-130	2		30
Ethyl Acetate	104		108		70-130	4		30
Isopropyl Ether	112		111		66-130	1		30
Cyclohexane	108		92		70-130	16		30
Tert-Butyl Alcohol	89		93		70-130	4		30
Ethyl-Tert-Butyl-Ether	105		108		70-130	3		30
Tertiary-Amyl Methyl Ether	103		104		70-130	1		30
1,4-Dioxane	103		100		65-136	3		30
Methyl cyclohexane	106		89		70-130	17		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG745526-1 WG745526-2								
1,1,2-Trichloro-1,2,2-Trifluoroethane	97		88		70-130	10		30
1,4-Diethylbenzene	115		112		70-130	3		30
4-Ethyltoluene	112		108		70-130	4		30
1,2,4,5-Tetramethylbenzene	111		110		70-130	1		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	99		102		70-130
Toluene-d8	96		94		70-130
4-Bromofluorobenzene	102		99		70-130
Dibromofluoromethane	103		104		70-130

SEMIVOLATILES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-01
 Client ID: LB-05_0-4
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/03/14 18:38
 Analyst: JB
 Percent Solids: 92%

Date Collected: 12/01/14 10:50
 Date Received: 12/01/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/02/14 12:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	--	1
2-Chloronaphthalene	ND		ug/kg	180	--	1
Fluoranthene	ND		ug/kg	110	--	1
Naphthalene	ND		ug/kg	180	--	1
Benzo(a)anthracene	ND		ug/kg	110	--	1
Benzo(a)pyrene	ND		ug/kg	140	--	1
Benzo(b)fluoranthene	ND		ug/kg	110	--	1
Benzo(k)fluoranthene	ND		ug/kg	110	--	1
Chrysene	ND		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	ND		ug/kg	110	--	1
Benzo(ghi)perylene	ND		ug/kg	140	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	ND		ug/kg	110	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	140	--	1
Pyrene	ND		ug/kg	110	--	1
1-Methylnaphthalene	ND		ug/kg	180	--	1
2-Methylnaphthalene	ND		ug/kg	220	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	48		18-120

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-02
Client ID: LB-05_4-8
Sample Location: KITTERY, MAINE
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/03/14 19:06
Analyst: JB
Percent Solids: 86%

Date Collected: 12/01/14 12:10
Date Received: 12/01/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 12/02/14 12:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	--	1
2-Chloronaphthalene	ND		ug/kg	190	--	1
Fluoranthene	ND		ug/kg	110	--	1
Naphthalene	ND		ug/kg	190	--	1
Benzo(a)anthracene	ND		ug/kg	110	--	1
Benzo(a)pyrene	ND		ug/kg	150	--	1
Benzo(b)fluoranthene	ND		ug/kg	110	--	1
Benzo(k)fluoranthene	ND		ug/kg	110	--	1
Chrysene	ND		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	150	--	1
Anthracene	ND		ug/kg	110	--	1
Benzo(ghi)perylene	ND		ug/kg	150	--	1
Fluorene	ND		ug/kg	190	--	1
Phenanthrene	ND		ug/kg	110	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	--	1
Pyrene	ND		ug/kg	110	--	1
1-Methylnaphthalene	ND		ug/kg	190	--	1
2-Methylnaphthalene	ND		ug/kg	230	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	107		23-120
2-Fluorobiphenyl	94		30-120
4-Terphenyl-d14	69		18-120

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-03
Client ID: LB-05_19-21
Sample Location: KITTERY, MAINE
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/06/14 03:13
Analyst: JB
Percent Solids: 82%

Date Collected: 12/01/14 13:00
Date Received: 12/01/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 12/02/14 12:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	--	1
2-Chloronaphthalene	ND		ug/kg	200	--	1
Fluoranthene	ND		ug/kg	120	--	1
Naphthalene	ND		ug/kg	200	--	1
Benzo(a)anthracene	ND		ug/kg	120	--	1
Benzo(a)pyrene	ND		ug/kg	160	--	1
Benzo(b)fluoranthene	ND		ug/kg	120	--	1
Benzo(k)fluoranthene	ND		ug/kg	120	--	1
Chrysene	ND		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	ND		ug/kg	120	--	1
Benzo(ghi)perylene	ND		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	ND		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	160	--	1
Pyrene	ND		ug/kg	120	--	1
1-Methylnaphthalene	ND		ug/kg	200	--	1
2-Methylnaphthalene	ND		ug/kg	240	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	69		30-120
4-Terphenyl-d14	65		18-120

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/03/14 16:48
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 12/02/14 12:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG744895-1					
Acenaphthene	ND		ug/kg	130	--
2-Chloronaphthalene	ND		ug/kg	160	--
Fluoranthene	ND		ug/kg	97	--
Naphthalene	ND		ug/kg	160	--
Benzo(a)anthracene	ND		ug/kg	97	--
Benzo(a)pyrene	ND		ug/kg	130	--
Benzo(b)fluoranthene	ND		ug/kg	97	--
Benzo(k)fluoranthene	ND		ug/kg	97	--
Chrysene	ND		ug/kg	97	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	97	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	97	--
Dibenzo(a,h)anthracene	ND		ug/kg	97	--
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	97	--
1-Methylnaphthalene	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	190	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	91		30-120
4-Terphenyl-d14	95		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG744895-2 WG744895-3								
Acenaphthene	58		71		31-137	20		50
2-Chloronaphthalene	62		73		40-140	16		50
Fluoranthene	61		71		40-140	15		50
Naphthalene	57		68		40-140	18		50
Benzo(a)anthracene	61		78		40-140	24		50
Benzo(a)pyrene	64		80		40-140	22		50
Benzo(b)fluoranthene	66		83		40-140	23		50
Benzo(k)fluoranthene	61		77		40-140	23		50
Chrysene	59		74		40-140	23		50
Acenaphthylene	62		73		40-140	16		50
Anthracene	59		73		40-140	21		50
Benzo(ghi)perylene	61		76		40-140	22		50
Fluorene	62		74		40-140	18		50
Phenanthrene	59		72		40-140	20		50
Dibenzo(a,h)anthracene	63		78		40-140	21		50
Indeno(1,2,3-cd)Pyrene	62		78		40-140	23		50
Pyrene	60		69		35-142	14		50
1-Methylnaphthalene	80		97			19		50
2-Methylnaphthalene	64		76		40-140	17		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG744895-2 WG744895-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
Nitrobenzene-d5	85		97		23-120
2-Fluorobiphenyl	76		90		30-120
4-Terphenyl-d14	65		80		18-120

PETROLEUM HYDROCARBONS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-01
 Client ID: LB-05_0-4
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8015C(M)
 Analytical Date: 12/03/14 20:43
 Analyst: AR
 Percent Solids: 92%

Date Collected: 12/01/14 10:50
 Date Received: 12/01/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/02/14 12:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	68600		ug/kg	34300	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	87		40-140

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-02
 Client ID: LB-05_4-8
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8015C(M)
 Analytical Date: 12/03/14 21:16
 Analyst: AR
 Percent Solids: 86%

Date Collected: 12/01/14 12:10
 Date Received: 12/01/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/02/14 12:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

TPH	ND		ug/kg	37600	--	1
-----	----	--	-------	-------	----	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	73		40-140

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-03
 Client ID: LB-05_19-21
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8015C(M)
 Analytical Date: 12/03/14 20:14
 Analyst: KB
 Percent Solids: 82%

Date Collected: 12/01/14 13:00
 Date Received: 12/01/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/02/14 12:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

TPH	ND		ug/kg	39700	--	1
-----	----	--	-------	-------	----	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	71		40-140

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 12/03/14 17:55
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 12/02/14 12:32

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-03 Batch: WG744900-1					
TPH	ND		ug/kg	32500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	82		40-140

Lab Control Sample Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-03 Batch: WG744900-2								
TPH	82		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	85				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG744900-3 QC Sample: L1428775-01 Client ID: LB-05_0-4						
TPH	68600	48000	ug/kg	35		40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	87		74		40-140



PCBS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-01
Client ID: LB-05_0-4
Sample Location: KITTERY, MAINE
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/03/14 07:28
Analyst: JW
Percent Solids: 92%

Date Collected: 12/01/14 10:50
Date Received: 12/01/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 12/02/14 13:34
Cleanup Method: EPA 3665A
Cleanup Date: 12/03/14
Cleanup Method: EPA 3660B
Cleanup Date: 12/03/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
PCB by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.1	--	1	A
Aroclor 1221	ND		ug/kg	35.1	--	1	A
Aroclor 1232	ND		ug/kg	35.1	--	1	A
Aroclor 1242	ND		ug/kg	35.1	--	1	A
Aroclor 1248	ND		ug/kg	35.1	--	1	A
Aroclor 1254	ND		ug/kg	35.1	--	1	A
Aroclor 1260	ND		ug/kg	35.1	--	1	A
Aroclor 1262	ND		ug/kg	35.1	--	1	A
Aroclor 1268	ND		ug/kg	35.1	--	1	A
PCBs, Total	ND		ug/kg	35.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	39		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-02
 Client ID: LB-05_4-8
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/05/14 09:58
 Analyst: JT
 Percent Solids: 86%

Date Collected: 12/01/14 12:10
 Date Received: 12/01/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/04/14 12:58
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/04/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/04/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
PCB by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.8	--	1	A
Aroclor 1221	ND		ug/kg	37.8	--	1	A
Aroclor 1232	ND		ug/kg	37.8	--	1	A
Aroclor 1242	ND		ug/kg	37.8	--	1	A
Aroclor 1248	ND		ug/kg	37.8	--	1	A
Aroclor 1254	ND		ug/kg	37.8	--	1	A
Aroclor 1260	ND		ug/kg	37.8	--	1	A
Aroclor 1262	ND		ug/kg	37.8	--	1	A
Aroclor 1268	ND		ug/kg	37.8	--	1	A
PCBs, Total	ND		ug/kg	37.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-03
Client ID: LB-05_19-21
Sample Location: KITTERY, MAINE
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/03/14 07:53
Analyst: JW
Percent Solids: 82%

Date Collected: 12/01/14 13:00
Date Received: 12/01/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 12/02/14 13:34
Cleanup Method: EPA 3665A
Cleanup Date: 12/03/14
Cleanup Method: EPA 3660B
Cleanup Date: 12/03/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
PCB by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.9	--	1	A
Aroclor 1221	ND		ug/kg	39.9	--	1	A
Aroclor 1232	ND		ug/kg	39.9	--	1	A
Aroclor 1242	ND		ug/kg	39.9	--	1	A
Aroclor 1248	ND		ug/kg	39.9	--	1	A
Aroclor 1254	ND		ug/kg	39.9	--	1	A
Aroclor 1260	ND		ug/kg	39.9	--	1	A
Aroclor 1262	ND		ug/kg	39.9	--	1	A
Aroclor 1268	ND		ug/kg	39.9	--	1	A
PCBs, Total	ND		ug/kg	39.9	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	35		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	36		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 12/03/14 08:05
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 12/02/14 13:34
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/03/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/03/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
PCB by GC - Westborough Lab for sample(s): 01,03 Batch: WG744930-1						
Aroclor 1016	ND		ug/kg	31.5	--	A
Aroclor 1221	ND		ug/kg	31.5	--	A
Aroclor 1232	ND		ug/kg	31.5	--	A
Aroclor 1242	ND		ug/kg	31.5	--	A
Aroclor 1248	ND		ug/kg	31.5	--	A
Aroclor 1254	ND		ug/kg	31.5	--	A
Aroclor 1260	ND		ug/kg	31.5	--	A
Aroclor 1262	ND		ug/kg	31.5	--	A
Aroclor 1268	ND		ug/kg	31.5	--	A
PCBs, Total	ND		ug/kg	31.5	--	A

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	43		30-150	B



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 12/05/14 08:50
Analyst: JT

Extraction Method: EPA 3546
Extraction Date: 12/04/14 12:58
Cleanup Method: EPA 3665A
Cleanup Date: 12/04/14
Cleanup Method: EPA 3660B
Cleanup Date: 12/04/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
PCB by GC - Westborough Lab for sample(s): 02 Batch: WG745679-1						
Aroclor 1016	ND		ug/kg	32.5	--	A
Aroclor 1221	ND		ug/kg	32.5	--	A
Aroclor 1232	ND		ug/kg	32.5	--	A
Aroclor 1242	ND		ug/kg	32.5	--	A
Aroclor 1248	ND		ug/kg	32.5	--	A
Aroclor 1254	ND		ug/kg	32.5	--	A
Aroclor 1260	ND		ug/kg	32.5	--	A
Aroclor 1262	ND		ug/kg	32.5	--	A
Aroclor 1268	ND		ug/kg	32.5	--	A
PCBs, Total	ND		ug/kg	32.5	--	A

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	85		30-150	B



Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
PCB by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG744930-2 WG744930-3									
Aroclor 1016	53		62		40-140	16		50	A
Aroclor 1260	42		47		40-140	11		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		53		30-150	A
Decachlorobiphenyl	40		45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		66		30-150	B
Decachlorobiphenyl	40		44		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
PCB by GC - Westborough Lab Associated sample(s): 02 Batch: WG745679-2 WG745679-3									
Aroclor 1016	81		84		40-140	4		50	A
Aroclor 1260	84		95		40-140	12		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		86		30-150	A
Decachlorobiphenyl	103		118		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		84		30-150	B
Decachlorobiphenyl	96		109		30-150	B

PESTICIDES

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-01
 Client ID: LB-05_0-4
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 12/03/14 16:02
 Analyst: SS
 Percent Solids: 92%

Date Collected: 12/01/14 10:50
 Date Received: 12/01/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/02/14 11:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/03/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	8.41	--	1	A
Lindane	ND		ug/kg	3.50	--	1	A
Alpha-BHC	ND		ug/kg	3.50	--	1	A
Beta-BHC	ND		ug/kg	8.41	--	1	A
Heptachlor	ND		ug/kg	4.20	--	1	A
Aldrin	ND		ug/kg	8.41	--	1	A
Heptachlor epoxide	ND		ug/kg	15.8	--	1	A
Endrin	ND		ug/kg	3.50	--	1	A
Endrin aldehyde	ND		ug/kg	10.5	--	1	A
Endrin ketone	ND		ug/kg	8.41	--	1	A
Dieldrin	ND		ug/kg	5.25	--	1	A
4,4'-DDE	ND		ug/kg	8.41	--	1	A
4,4'-DDD	ND		ug/kg	8.41	--	1	A
4,4'-DDT	ND		ug/kg	15.8	--	1	A
Endosulfan I	ND		ug/kg	8.41	--	1	A
Endosulfan II	ND		ug/kg	8.41	--	1	A
Endosulfan sulfate	ND		ug/kg	3.50	--	1	A
Methoxychlor	ND		ug/kg	15.8	--	1	A
Toxaphene	ND		ug/kg	158	--	1	A
Chlordane	ND		ug/kg	68.3	--	1	A
cis-Chlordane	ND		ug/kg	10.5	--	1	A
trans-Chlordane	ND		ug/kg	10.5	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	90		30-150	A

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-01
 Client ID: LB-05_0-4
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/03/14 06:48
 Analyst: SS
 Percent Solids: 92%
 Methylation Date: 12/02/14 21:15

Date Collected: 12/01/14 10:50
 Date Received: 12/01/14
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 12/02/14 02:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	--	1	A
2,4,5-T	ND		ug/kg	180	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	61		30-150	A
DCAA	62		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-02
 Client ID: LB-05_4-8
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 12/03/14 16:15
 Analyst: SS
 Percent Solids: 86%

Date Collected: 12/01/14 12:10
 Date Received: 12/01/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/02/14 11:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/03/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	8.96	--	1	A
Lindane	ND		ug/kg	3.73	--	1	A
Alpha-BHC	ND		ug/kg	3.73	--	1	A
Beta-BHC	ND		ug/kg	8.96	--	1	A
Heptachlor	ND		ug/kg	4.48	--	1	A
Aldrin	ND		ug/kg	8.96	--	1	A
Heptachlor epoxide	ND		ug/kg	16.8	--	1	A
Endrin	ND		ug/kg	3.73	--	1	A
Endrin aldehyde	ND		ug/kg	11.2	--	1	A
Endrin ketone	ND		ug/kg	8.96	--	1	A
Dieldrin	ND		ug/kg	5.60	--	1	A
4,4'-DDE	ND		ug/kg	8.96	--	1	A
4,4'-DDD	ND		ug/kg	8.96	--	1	A
4,4'-DDT	ND		ug/kg	16.8	--	1	A
Endosulfan I	ND		ug/kg	8.96	--	1	A
Endosulfan II	ND		ug/kg	8.96	--	1	A
Endosulfan sulfate	ND		ug/kg	3.73	--	1	A
Methoxychlor	ND		ug/kg	16.8	--	1	A
Toxaphene	ND		ug/kg	168	--	1	A
Chlordane	ND		ug/kg	72.8	--	1	A
cis-Chlordane	ND		ug/kg	11.2	--	1	A
trans-Chlordane	ND		ug/kg	11.2	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	108		30-150	B
2,4,5,6-Tetrachloro-m-xylene	104		30-150	A
Decachlorobiphenyl	94		30-150	A

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-02
 Client ID: LB-05_4-8
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/03/14 07:08
 Analyst: SS
 Percent Solids: 86%
 Methylation Date: 12/02/14 21:15

Date Collected: 12/01/14 12:10
 Date Received: 12/01/14
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 12/02/14 02:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	192	--	1	A
2,4,5-T	ND		ug/kg	192	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	192	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	65		30-150	A
DCAA	62		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-03
 Client ID: LB-05_19-21
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 12/03/14 16:29
 Analyst: SS
 Percent Solids: 82%

Date Collected: 12/01/14 13:00
 Date Received: 12/01/14
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/02/14 11:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/03/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	9.61	--	1	A
Lindane	ND		ug/kg	4.00	--	1	A
Alpha-BHC	ND		ug/kg	4.00	--	1	A
Beta-BHC	ND		ug/kg	9.61	--	1	A
Heptachlor	ND		ug/kg	4.80	--	1	A
Aldrin	ND		ug/kg	9.61	--	1	A
Heptachlor epoxide	ND		ug/kg	18.0	--	1	A
Endrin	ND		ug/kg	4.00	--	1	A
Endrin aldehyde	ND		ug/kg	12.0	--	1	A
Endrin ketone	ND		ug/kg	9.61	--	1	A
Dieldrin	ND		ug/kg	6.00	--	1	A
4,4'-DDE	ND		ug/kg	9.61	--	1	A
4,4'-DDD	ND		ug/kg	9.61	--	1	A
4,4'-DDT	ND		ug/kg	18.0	--	1	A
Endosulfan I	ND		ug/kg	9.61	--	1	A
Endosulfan II	ND		ug/kg	9.61	--	1	A
Endosulfan sulfate	ND		ug/kg	4.00	--	1	A
Methoxychlor	ND		ug/kg	18.0	--	1	A
Toxaphene	ND		ug/kg	180	--	1	A
Chlordane	ND		ug/kg	78.0	--	1	A
cis-Chlordane	ND		ug/kg	12.0	--	1	A
trans-Chlordane	ND		ug/kg	12.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	86		30-150	A

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-03
 Client ID: LB-05_19-21
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/03/14 07:28
 Analyst: SS
 Percent Solids: 82%
 Methylation Date: 12/02/14 21:15

Date Collected: 12/01/14 13:00
 Date Received: 12/01/14
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 12/02/14 02:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	199	--	1	A
2,4,5-T	ND		ug/kg	199	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	199	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	64		30-150	A
DCAA	60		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
 Analytical Date: 12/03/14 04:51
 Analyst: SS

Extraction Method: EPA 8151A
 Extraction Date: 12/02/14 02:26

Methylation Date: 12/02/14 21:15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03 Batch: WG744763-1						
2,4-D	ND		ug/kg	163	--	A
2,4,5-T	ND		ug/kg	163	--	A
2,4,5-TP (Silvex)	ND		ug/kg	163	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	49		30-150	A
DCAA	50		30-150	B

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/03/14 15:09
Analyst: SS

Extraction Method: EPA 3546
Extraction Date: 12/02/14 11:22
Cleanup Method: EPA 3620B
Cleanup Date: 12/03/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG744878-1						
Delta-BHC	ND		ug/kg	7.89	--	A
Lindane	ND		ug/kg	3.29	--	A
Alpha-BHC	ND		ug/kg	3.29	--	A
Beta-BHC	ND		ug/kg	7.89	--	A
Heptachlor	ND		ug/kg	3.94	--	A
Aldrin	ND		ug/kg	7.89	--	A
Heptachlor epoxide	ND		ug/kg	14.8	--	A
Endrin	ND		ug/kg	3.29	--	A
Endrin aldehyde	ND		ug/kg	9.86	--	A
Endrin ketone	ND		ug/kg	7.89	--	A
Dieldrin	ND		ug/kg	4.93	--	A
4,4'-DDE	ND		ug/kg	7.89	--	A
4,4'-DDD	ND		ug/kg	7.89	--	A
4,4'-DDT	ND		ug/kg	14.8	--	A
Endosulfan I	ND		ug/kg	7.89	--	A
Endosulfan II	ND		ug/kg	7.89	--	A
Endosulfan sulfate	ND		ug/kg	3.29	--	A
Methoxychlor	ND		ug/kg	14.8	--	A
Toxaphene	ND		ug/kg	148	--	A
Chlordane	ND		ug/kg	64.1	--	A
cis-Chlordane	ND		ug/kg	9.86	--	A
trans-Chlordane	ND		ug/kg	9.86	--	A

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/03/14 15:09
Analyst: SS

Extraction Method: EPA 3546
Extraction Date: 12/02/14 11:22
Cleanup Method: EPA 3620B
Cleanup Date: 12/03/14

Parameter	Result	Qualifier	Units	RL	MDL
-----------	--------	-----------	-------	----	-----

Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG744878-1

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	72		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG744763-2 WG744763-3									
2,4-D	47		64		30-150	31	Q	30	A
2,4,5-T	50		65		30-150	26		30	A
2,4,5-TP (Silvex)	48		59		30-150	21		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	40		51		30-150	A
DCAA	60		57		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG744878-2 WG744878-3									
Delta-BHC	79		76		30-150	4		30	A
Lindane	108		103		30-150	5		30	A
Alpha-BHC	95		93		30-150	2		30	A
Beta-BHC	109		105		30-150	4		30	A
Heptachlor	109		104		30-150	5		30	A
Aldrin	105		101		30-150	4		30	A
Heptachlor epoxide	105		99		30-150	6		30	A
Endrin	110		105		30-150	5		30	A
Endrin aldehyde	70		69		30-150	1		30	A
Endrin ketone	83		80		30-150	4		30	A
Dieldrin	107		103		30-150	4		30	A
4,4'-DDE	100		96		30-150	4		30	A
4,4'-DDD	103		98		30-150	5		30	A
4,4'-DDT	103		98		30-150	5		30	A
Endosulfan I	102		98		30-150	4		30	A
Endosulfan II	89		86		30-150	3		30	A
Endosulfan sulfate	81		80		30-150	1		30	A
Methoxychlor	92		87		30-150	6		30	A
cis-Chlordane	98		94		30-150	4		30	A
trans-Chlordane	103		99		30-150	4		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG744878-2 WG744878-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	103		101		30-150	B
Decachlorobiphenyl	118		114		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		92		30-150	A
Decachlorobiphenyl	96		95		30-150	A

METALS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-01
 Client ID: LB-05_0-4
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Percent Solids: 92%

Date Collected: 12/01/14 10:50
 Date Received: 12/01/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	25		mg/kg	0.41	--	1	12/02/14 20:18	12/03/14 16:04	EPA 3050B	1,6010C	TT
Barium, Total	47		mg/kg	0.41	--	1	12/02/14 20:18	12/03/14 16:04	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.41	--	1	12/02/14 20:18	12/03/14 16:04	EPA 3050B	1,6010C	TT
Chromium, Total	33		mg/kg	0.41	--	1	12/02/14 20:18	12/03/14 16:04	EPA 3050B	1,6010C	TT
Lead, Total	10		mg/kg	2.0	--	1	12/02/14 20:18	12/03/14 16:04	EPA 3050B	1,6010C	TT
Mercury, Total	ND		mg/kg	0.08	--	1	12/02/14 09:49	12/02/14 12:33	EPA 7471B	1,7471B	MC
Selenium, Total	ND		mg/kg	0.82	--	1	12/02/14 20:18	12/03/14 16:04	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.41	--	1	12/02/14 20:18	12/03/14 16:04	EPA 3050B	1,6010C	TT



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-02
 Client ID: LB-05_4-8
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Percent Solids: 86%

Date Collected: 12/01/14 12:10
 Date Received: 12/01/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	22		mg/kg	0.44	--	1	12/02/14 20:18	12/03/14 16:25	EPA 3050B	1,6010C	TT
Barium, Total	56		mg/kg	0.44	--	1	12/02/14 20:18	12/03/14 16:25	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.44	--	1	12/02/14 20:18	12/03/14 16:25	EPA 3050B	1,6010C	TT
Chromium, Total	28		mg/kg	0.44	--	1	12/02/14 20:18	12/03/14 16:25	EPA 3050B	1,6010C	TT
Lead, Total	7.4		mg/kg	2.2	--	1	12/02/14 20:18	12/03/14 16:25	EPA 3050B	1,6010C	TT
Mercury, Total	ND		mg/kg	0.08	--	1	12/02/14 09:49	12/02/14 12:34	EPA 7471B	1,7471B	MC
Selenium, Total	ND		mg/kg	0.89	--	1	12/02/14 20:18	12/03/14 16:25	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.44	--	1	12/02/14 20:18	12/03/14 16:25	EPA 3050B	1,6010C	TT



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-03
 Client ID: LB-05_19-21
 Sample Location: KITTERY, MAINE
 Matrix: Soil
 Percent Solids: 82%

Date Collected: 12/01/14 13:00
 Date Received: 12/01/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	27		mg/kg	0.46	--	1	12/02/14 20:18	12/03/14 16:29	EPA 3050B	1,6010C	TT
Barium, Total	70		mg/kg	0.46	--	1	12/02/14 20:18	12/03/14 16:29	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.46	--	1	12/02/14 20:18	12/03/14 16:29	EPA 3050B	1,6010C	TT
Chromium, Total	32		mg/kg	0.46	--	1	12/02/14 20:18	12/03/14 16:29	EPA 3050B	1,6010C	TT
Lead, Total	8.7		mg/kg	2.3	--	1	12/02/14 20:18	12/03/14 16:29	EPA 3050B	1,6010C	TT
Mercury, Total	ND		mg/kg	0.09	--	1	12/02/14 09:49	12/02/14 12:36	EPA 7471B	1,7471B	MC
Selenium, Total	ND		mg/kg	0.92	--	1	12/02/14 20:18	12/03/14 16:29	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.46	--	1	12/02/14 20:18	12/03/14 16:29	EPA 3050B	1,6010C	TT



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG744767-1									
Mercury, Total	ND	mg/kg	0.08	--	1	12/02/14 09:49	12/02/14 12:00	1,7471B	MC

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG745037-1									
Arsenic, Total	ND	mg/kg	0.40	--	1	12/02/14 20:18	12/03/14 15:36	1,6010C	TT
Barium, Total	ND	mg/kg	0.40	--	1	12/02/14 20:18	12/03/14 15:36	1,6010C	TT
Cadmium, Total	ND	mg/kg	0.40	--	1	12/02/14 20:18	12/03/14 15:36	1,6010C	TT
Chromium, Total	ND	mg/kg	0.40	--	1	12/02/14 20:18	12/03/14 15:36	1,6010C	TT
Lead, Total	ND	mg/kg	2.0	--	1	12/02/14 20:18	12/03/14 15:36	1,6010C	TT
Selenium, Total	ND	mg/kg	0.80	--	1	12/02/14 20:18	12/03/14 15:36	1,6010C	TT
Silver, Total	ND	mg/kg	0.40	--	1	12/02/14 20:18	12/03/14 15:36	1,6010C	TT

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG744767-2 SRM Lot Number: D083-540								
Mercury, Total	103		-		75-126	-		
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG745037-2 SRM Lot Number: D083-540								
Arsenic, Total	106		-		78-122	-		
Barium, Total	96		-		82-117	-		
Cadmium, Total	94		-		82-118	-		
Chromium, Total	90		-		79-121	-		
Lead, Total	93		-		81-119	-		
Selenium, Total	102		-		78-123	-		
Silver, Total	94		-		74-125	-		

Matrix Spike Analysis Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG744767-4 QC Sample: L1428590-01 Client ID: MS Sample												
Mercury, Total	ND	0.164	0.20	122	Q	-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG745037-4 QC Sample: L1428766-01 Client ID: MS Sample												
Arsenic, Total	12	10.9	23	101		-	-		75-125	-		20
Barium, Total	74	182	280	113		-	-		75-125	-		20
Cadmium, Total	ND	4.64	3.6	78		-	-		75-125	-		20
Chromium, Total	19	18.2	32	71	Q	-	-		75-125	-		20
Lead, Total	18	46.4	46	60	Q	-	-		75-125	-		20
Selenium, Total	ND	10.9	9.6	88		-	-		75-125	-		20
Silver, Total	ND	27.3	30	110		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG744767-3 QC Sample: L1428590-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG745037-3 QC Sample: L1428766-01 Client ID: DUP Sample						
Arsenic, Total	12	9.5	mg/kg	23	Q	20
Barium, Total	74	50	mg/kg	39	Q	20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	19	17	mg/kg	11		20
Lead, Total	18	9.4	mg/kg	63	Q	20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-01
Client ID: LB-05_0-4
Sample Location: KITTERY, MAINE
Matrix: Soil

Date Collected: 12/01/14 10:50
Date Received: 12/01/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.5		%	0.100	NA	1	-	12/01/14 21:54	30,2540G	RT



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-02
Client ID: LB-05_4-8
Sample Location: KITTERY, MAINE
Matrix: Soil

Date Collected: 12/01/14 12:10
Date Received: 12/01/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	12/01/14 21:54	30,2540G	RT



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

SAMPLE RESULTS

Lab ID: L1428775-03
Client ID: LB-05_19-21
Sample Location: KITTERY, MAINE
Matrix: Soil

Date Collected: 12/01/14 13:00
Date Received: 12/01/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.7		%	0.100	NA	1	-	12/01/14 21:54	30,2540G	RT



Lab Duplicate Analysis

Batch Quality Control

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG744724-1 QC Sample: L1428701-01 Client ID: DUP Sample						
Solids, Total	82.8	85.7	%	3		20

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 12/01/2014 21:10

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1428775-01A	Vial MeOH preserved	A	N/A	3.0	Y	Absent	8260HLW(14)
L1428775-01B	Vial water preserved	A	N/A	3.0	Y	Absent	8260HLW(14)
L1428775-01C	Vial water preserved	A	N/A	3.0	Y	Absent	8260HLW(14)
L1428775-01D	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7)
L1428775-01E	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DRO-D(14),CD-TI(180)
L1428775-02A	Vial MeOH preserved	A	N/A	3.0	Y	Absent	8260HLW(14)
L1428775-02B	Vial water preserved	A	N/A	3.0	Y	Absent	8260HLW(14)
L1428775-02C	Vial water preserved	A	N/A	3.0	Y	Absent	8260HLW(14)
L1428775-02D	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7)
L1428775-02E	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DRO-D(14),CD-TI(180)
L1428775-03A	Vial MeOH preserved	A	N/A	3.0	Y	Absent	8260HLW(14)
L1428775-03B	Vial water preserved	A	N/A	3.0	Y	Absent	8260HLW(14)
L1428775-03C	Vial water preserved	A	N/A	3.0	Y	Absent	8260HLW(14)
L1428775-03D	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7)
L1428775-03E	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),8270TCL-PAH(14),CR-TI(180),PCB-8082(14),TS(7),PB-TI(180),SE-TI(180),PEST-8081(14),HG-T(28),TPH-DRO-D(14),CD-TI(180)

*Values in parentheses indicate holding time in days

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a "Total" result is defined as the summation of results for individual isomers or Aroclors. If a "Total" result is requested, the results of its individual components will also be reported. This is applicable to "Total" results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

Data Qualifiers

- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: PNSY
Project Number: 41242-000

Lab Number: L1428775
Report Date: 12/07/14

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

CHAIN OF CUSTODY

PAGE _____ OF _____

Date Rec'd in Lab: 12/1/14

Serial No: 12071420:17
ALPHA Job #: C1428775

Project Information

Project Name: **PNSU**

Project Location: **Kittery, Maine**

Project #: **41242-000**

Project Manager: **Erin Force**

ALPHA Quote #:

Report Information - Data Deliverables

ADEX EMAIL

Same as Client info PO #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: **12/5/14**

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods

Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)

Yes No GW1 Standards (Info Required for Metals & EPH with Targets)

Yes No NPDES RGP

Other State/Fed Program _____ Criteria _____

Client Information

Client: **Haley & Aldrich, Inc.**

Address: **3 Bedford Farms Drive
Bedford, NH 05110**

Phone: **603-391-3326**

Email: **e.force@haleyaldrich.com**
m.hatton@haleyaldrich.com

Additional Project Information:

ANALYSIS

VOC: 8260 624 524.2

SVOC: ABN PAH

METALS: MCP 13 MCP 14 RCP 15

METALS: RCRA5 RCRA8

EPH: Ranges & Targets Ranges Only

VPH: Ranges & Targets Ranges Only

PCB PEST

TPH: Quant Only Fingerprint

Herbicides

TCLP for RCRA8*

SAMPLE INFO

Filtration
 Field
 Lab to do

Preservation
 Lab to do

Sample Comments

TOTAL # BOTTLES

***Only test TCLP for individual RCRA8 metals if exceedances of 20x Rule occur in RCRA8 metal testing.**

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
28775-01	LB-05_0-4	12/1/14	1050		
-02	LB-05_4-8	12/1/14	1210		
-03	LB-05_19-21	12/1/14	1300		

**LAND BORINGS
ENVIRONMENTAL COC**

Container Type

= Plastic
= Amber glass
= Vial
= Glass
= Bacteria cup
= Cube
= Other
= Encore
= BOD Bottle

Preservative

A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₈
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Container Type _____

Preservative _____

Relinquished By: **Alex Fleming** Date/Time: **12/1/14 1645**

Received By: **[Signature]** Date/Time: **12/1/14 1805**

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)



ProScience Analytical Services, Inc

Payl Plagge
Wilcox & Barton, Inc., NH
P.O. Box 1630
Derry, NH 03038

February 19, 2016

Dear Payl Plagge,

Results of samples you described and submitted to ProScience Analytical Services, Inc. are shown on the enclosed data sheets. The analytical results in this report apply to the items tested only.

The listed samples were prepared and analyzed in compliance with the New York State Transmission Electron Microscope Method for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples. This method is used for the determination of weight percent of asbestos in non-friable materials.

The sample is processed to remove non-asbestos interference. The remaining residue is examined using a Philips 300 transmission electron microscope equipped with selected area electron diffraction (SAED) and an Evex energy dispersive x-ray analyzer.

The following are reported: identification numbers, type of material, color of the sample, initial weight of the sample, weight percent of organic material lost by ashing, weight percent of carbonates lost by acid dissolution, weight percent of non-fibrous/non asbestos inorganic material, total weight percent of asbestos in the original sample, and the type(s) of asbestos, if any.

The EPA recognizes asbestos as the following: actinolite, amosite, anthophyllite, chrysotile, crocidolite, and tremolite. To be considered asbestos containing, a material must be determined to contain greater than one percent asbestos. Samples are retained for a period of 2 months.

The quality control data related to the samples analyzed are available for review upon the written request of the client. ProScience Analytical Services, Inc. and its personnel assume no responsibility for potential sample contamination, misuse, misinformation, or misrepresentation by the client. The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLAP. This report may not be reproduced, except in its entirety, without permission of the ProScience Analytical Services, Inc. Laboratory Director.

Please contact me if you have any questions regarding this report or related information.

Sincerely,

Mark Derosier, Senior Analyst
Aimee Cormier, Laboratory Manager

Enclosure:

BATCH NUMBER : NT 15617 CLIENT PROJECT ID: FST0049
Client Ref: DD1 Lift and Handling Study
NVLAP Lab Code 200090-0; CT ID# PH-0209; MA ID# AA000156; ME ID# LB-055; ME ID# LA-056;
AIHA ID# 102754; VT ID# AL016876; PH ID# 218(TEM,PLM); RI ID# 186.

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: FST0049
Client Reference: DD1 Lift and Handling Study
PO #: N/A
Client #: 929
Client Name: Wilcox & Barton, Inc., NH

Batch: NT 15617
Method: NOB
Date Received: 2/17/2016
Date Analyzed: 2/19/2016
Date of Report: 2/19/2016

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT119103	B11-B008	Lt. Gray Caulking/Sealant		.7559	.00	.00	.00	.00	.00	.00	8.23	64.98	26.79	ND	Yes	No
NT119104	B11-B009	Black Tar		.3600	.00	.00	.00	.00	.00	.00	3.73	91.58	4.69	ND	Yes	No
NT119105	NDD-B010	Black Tar		.7207	2.20	.00	.00	.00	.00	.00	1.46	92.27	4.07	2.20	Yes	No

Comments:

Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected


Mark Derosier, Analyst

ProScience Analytical Services, Inc.

www.proscience.net

22 Cummings Park, Woburn, MA 01801 T: 781-935-3212 F: 781-932-4857 general@proscience.net

TAT (Circle) <6hr SD 24h **48h** 3d 4d 5d Other

Friday Morning 2/19/16

TEM

Chain of Custody
ver 3.2 Updated 2/4/14

Off-hours work is available but subject to PASI approval and surcharges.

PASI Batch #

NT15617

Client	Name	Wilcox & Barton Inc
	Address	57 Hoyt Rd, Concord MA 03301
	Job #	FST0049
	Job Name	DD1 Lifting and Handling Study
	PO #	

Results

Tel	Fax	Email	HC
		X	

Final Report

Email	Hard Copy
X	

Analysis	Air	Water	Bulk
	AHERA Clearance Set	Drinking (EPA 100.2)	NOB
AHERA Method (no set)	Waste (EPA 100.1)	Qualitative	
NIOSH 7402 (PCM Equiv.)	Dust		Soil
ISO 10312 (direct)	ASTM D6480	Stop 1st Pos	
ISO 13794 (indirect)	ASTM D5755	Other in Comments	

Contact	Name	PAUL PLAGGE
	Phone/Fax	(603) 369-4190 X506
	Email	pplagge@wilcoxandbarton.com

Relinquished By Paul Plagge

Date / Time 2/17/16

Received By Margaret Waters

Date / Time 2/17/16 11:00 AM

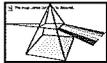
Relinquished By _____

Date / Time _____

Received By _____

Date / Time _____

Sample ID	Description	Type In, Out, Blk, Pnl, Area	Location / Date & Time Collected	Volume or Area	Comments
B11-B008	Lt. Grey Caulking/Sealant		Cast Cleat Holes - Berth 11		
B11-B009	Black tar		Timber Curb Holes - Berth 11		
INDD-B010	Black tar		Fabricated Cleat Anchor Bolt DD1		



ProScience Analytical Services, Inc.
 22 Cummings Park, Woburn, MA 01801

Telephone: 781-935-3212
 Facsimile: 781-932-4857
 Email: chemistry@proscience.net

Laboratory Report

Contact: Paul Plagge
Client: Wilcox & Barton, Inc.
Address: 57 Hoyt Road
 Concord, NH 03301

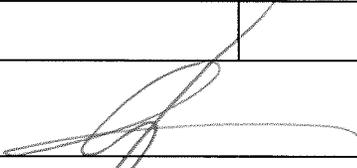
Batch #: C 287245
Date received: 2/17/2016
Date analyzed: 2/17/2016
Date of report: 2/17/2016

Project # FST0049
P.O.# n/a
Project Site: DD1 Lifting and Handling Study
 PNSY

AIHA-LAP, LLC Lab ID 102754

Lead Analysis In Paint Using SOP Based on SW846-7420/3051
 Results in weight percent on an "as received" weight basis

Lab ID	Client ID	Sample date	Description	Result	Reporting Limit	Comments
C 542788	NDD-LBP-10	2/17/16	Yellow Paint on Fabricated Cleat	9.6	0.022	
C 542789	B11-LBP-11	2/17/16	Yellow Paint (Teal Undercoat) on Cast Cleat	<RL	0.011	
C 542790	B11-LBP-12	2/17/16	Yellow Paint on Fabricated Bollard (Bent 14)	<RL	0.013	
C 542791	B11-LBP-13	2/17/16	Coal Tar on Master Pile (Bent N)	<RL	0.016	
C 542792	B11-LBP-14	2/17/16	Green Paint (Grey Undercoat) Effluent Tank Platform	<RL	0.018	
C 542793	B11-LBP-15	2/17/16	Yellow Paint on Donkey Ecured Cleat	<RL	0.019	
C 542794	B11-LBP-16	2/17/16	Yellow Paint on Fabricated Bollard (Bent 25)	<RL	0.027	
C 542795	B13-LBP-17	2/17/16	Yellow Paint on Fabricated Cleat	6.5	0.022	



Simona Peavey, Tech. Manager Chemistry
Aimee Cormier, Lab Director

Unless otherwise indicated, all samples were received in acceptable condition.
 All results apply only to the samples as received and are accurate to no more than two significant figures.

Unless otherwise indicated, all the quality control criteria for the method above have been met.

RL-Reporting Limit(%by weight)

Note on units: mg/Kg is the same as ppm by weight.

ProScience Analytical Services, Inc.
Chemistry Chain of Custody Record

LABORATORY/HEADQUARTERS

22 Cummings Park, Woburn, MA 01801
 T:781-935-3212 F:781-932-4857

CONSULTING SERVICES

683 North Mountain Rd., Newington, CT 06111
 T:860-953-1022 F: 860-953-1030

Rush/<6 Hours

Turn Around Time Requested (circle)

Same Day

Next Day

2 Day

3 Day

5 Days

Morning Friday 2/19/16

Client:

Wilcox & Barton, Inc.

NELAC analysis

Address: Street 57 Hoyt Road

Town Concord State/Zip NH 03301

Project Site Line 1 DD1 Lifting and Handling Study Project Number FST0049

Line 2 PNSY Purchase Order

Contact: Paul Plagge Phone (603) 369-4190 x506 FAX Alt/Pager (978) 618-4558

TYPE OF ANALYSIS (circle)

DUST WIPES	PAINT (0.1 g)	SOIL (1 g)
AIR	TSP	TCLP (100g)
(min)	PM10	Other

Element gravimetric
 Pb Cd Cr As
 Se Ag Ba Hg

For Laboratory Use

Other (please specify under Comments)

BATCH NUMBER

QC

C 287245

ASTM E1792

FOR LABORATORY USE ONLY

Date and Time Sampled	Field I.D.	Sample Description/Location	Air Sampling Information				Wiped area			ANALYSIS			Lab I.D.		
			Start Time	End Time	Start Flowrate	End Flowrate	Volume (liters)	length (inch)	width (inch)	Area (sq in)	Weight (grams)	Dil'n		AA Reading	RESULT
2/17/16	NDD-LBP-10	Yellow Paint on Fabricated Cleat													542788
	B11-LBP-11	Yellow Paint (Tall undercut) on Cast Cleat													89
	B11-LBP-12	Yellow Paint on Fabricated Bollard (Bent 14)													90
	B11-LBP-13	Coal Tar on Master Pile (Bent N)													91
	B11-LBP-14	Lt Green Paint (Grey undercut) Effluent Tank Platform													92
	B11-LBP-15	Yellow Paint on Donkey Fabricated Ewed Cleat													93
	B11-LBP-16	Yellow Paint on Fabricated Bollard (Bent 25)													94
	B13-LBP-17	Yellow Paint on Fabricated Cleat.													95

Relinquished By: *Paul Plagge*

Date: 2/17/16

Time: _____

Received By: *[Signature]*

Date: 2/17/16

Time: 11:00pm

Comments: _____

PAGE _____ OF _____

ver 4.8

For complete information about our services and locations please visit us at www.proscience.net or call the us at the numbers above.